



US010944710B1

(12) **United States Patent**
Allen et al.

(10) **Patent No.:** **US 10,944,710 B1**
(45) **Date of Patent:** ***Mar. 9, 2021**

(54) **EPHEMERAL GALLERY USER INTERFACE WITH REMAINING GALLERY TIME INDICATION**

USPC 709/206; 715/835, 810, 205, 838, 863;
725/41, 136
See application file for complete search history.

(71) Applicant: **Snap Inc.**, Santa Monica, CA (US)

(56) **References Cited**

(72) Inventors: **Nicholas Allen**, Santa Monica, CA (US); **Donald Giovannini**, Venice, CA (US); **Chiayi Lin**, Venice, CA (US); **Robert Murphy**, Venice, CA (US); **Evan Spiegel**, Venice, CA (US)

U.S. PATENT DOCUMENTS

5,754,939 A 5/1998 Herz et al.
5,999,932 A 12/1999 Paul
6,038,295 A 3/2000 Mattes
(Continued)

(73) Assignee: **Snap Inc.**, Santa Monica, CA (US)

FOREIGN PATENT DOCUMENTS

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

CA 2887596 A1 7/2015
CA 2894332 C 8/2018
(Continued)

This patent is subject to a terminal disclaimer.

OTHER PUBLICATIONS

(21) Appl. No.: **15/224,359**

US 10,075,404 B1, 09/2018, Allen et al. (withdrawn)
(Continued)

(22) Filed: **Jul. 29, 2016**

Related U.S. Application Data

Primary Examiner — Thuong Nguyen

(63) Continuation of application No. 14/505,478, filed on Oct. 2, 2014, now Pat. No. 9,537,811.

(74) *Attorney, Agent, or Firm* — Schwegman Lundberg & Woessner, P.A.

(51) **Int. Cl.**
G06F 15/16 (2006.01)
H04L 12/58 (2006.01)
G06Q 50/00 (2012.01)
G06F 3/0482 (2013.01)

(57) **ABSTRACT**

(Continued)

A server maintains a gallery of ephemeral messages. Each ephemeral message is posted to the gallery by a user for viewing by recipients via recipient devices. In response to a gallery view request from any of the recipient devices, the ephemeral messages in the gallery are displayed on the requesting device in automated sequence, each message being displayed for a respective display duration before display of the next message in the gallery. A user interface via which the gallery is viewable includes indicia of a current value of a time for which the gallery will remain available for viewing via the interface.

(52) **U.S. Cl.**
CPC **H04L 51/22** (2013.01); **G06F 3/0482** (2013.01); **G06F 3/04883** (2013.01); **G06F 3/04886** (2013.01); **G06F 40/169** (2020.01); **G06Q 50/01** (2013.01)

(58) **Field of Classification Search**
CPC G06F 3/0482; G06F 3/04883; G06F 3/04886; G06F 17/241; G06Q 50/01

19 Claims, 10 Drawing Sheets

700	702	704
Message_1	10 Seconds	120 Minutes Left
Message_2	5 Seconds	360 Minutes Left
Message_3	5 Seconds	1200 Minutes Left
Message_4	10 Seconds	1320 Minutes Left

(51)	Int. Cl. G06F 3/0488 G06F 40/169	(2013.01) (2020.01)	8,724,622 B2 8,744,523 B2 8,745,132 B2 8,775,401 B2 8,775,972 B2 8,788,680 B1 8,788,947 B2 8,797,415 B2 8,856,349 B2 8,874,677 B2 8,909,679 B2 8,909,714 B2 8,909,725 B1 8,914,752 B1 8,925,106 B1 8,995,433 B2 9,026,943 B1 9,037,577 B1 9,040,574 B2 9,055,416 B2 9,063,638 B1 * 9,083,770 B1 9,094,137 B1 9,098,832 B1 9,100,806 B2 9,100,807 B2 9,113,301 B1 9,148,424 B1 9,191,776 B2 9,204,252 B2 9,225,805 B2 9,225,897 B1 9,237,202 B1 9,258,459 B2 9,264,463 B2 9,276,886 B1 9,294,425 B1 9,344,606 B2 9,385,983 B1 9,396,354 B1 9,407,712 B1 9,407,816 B1 9,417,754 B2 9,430,783 B1 9,443,227 B2 9,477,391 B2 9,482,882 B1 9,482,883 B1 9,489,661 B2 9,491,134 B2 9,532,171 B2 9,537,811 B2 *	5/2014 6/2014 6/2014 7/2014 7/2014 7/2014 7/2014 8/2014 10/2014 10/2014 12/2014 12/2014 12/2014 12/2014 12/2014 3/2015 5/2015 5/2015 5/2015 6/2015 6/2015 7/2015 7/2015 8/2015 8/2015 8/2015 8/2015 9/2015 11/2015 12/2015 12/2015 12/2015 1/2016 2/2016 2/2016 3/2016 3/2016 5/2016 7/2016 7/2016 8/2016 8/2016 8/2016 8/2016 9/2016 10/2016 11/2016 11/2016 11/2016 11/2016 12/2016 12/2016 1/2017 1/2017 1/2017 4/2017 5/2017 5/2017 6/2017 7/2017 8/2017 10/2017 11/2017 12/2017 5/2018 11/2018 1/2019 2/2019 5/2019 6/2019 9/2019 10/2019 11/2019 12/2019 12/2019 2/2020 3/2020 4/2020 4/2020	Rojas Fan et al. Obradovich Zhou et al. Spiegel Naik Putz et al. Arnold Jain et al. Rosen et al. Root et al. Agarwal et al. Sehn Spiegel Steiner et al. Rojas Spiegel Saylor et al. Wang et al. Rosen et al. Schrock G06F 3/0484 Dröse et al. Sehn et al. Scardino Rosen et al. Rosen et al. Spiegel et al. Yang Root et al. Root Kujawa et al. Sehn Sehn Hartley Rubinstein et al. Samaranayake Son Hartley et al. Sehn Murphy et al. Sehn Sehn Smith Sehn Evans et al. Flynn, III et al. Hanover et al. Meisenholder Evans et al. Rosen et al. Allen et al. Allen H04L 51/22 709/206 Duggal et al. Prado et al. Noeth et al. Jurgenson et al. Anderton et al. Sehn Spiegel Spiegel et al. Murphy et al. Sehn Sehn Brooks et al. Allen et al. Sehn Allen et al. Allen et al. Sehn Allen et al. Allen et al. Sehn Allen et al. Murphy et al. Sehn Allen et al. Sehn et al.
(56)	References Cited				
	U.S. PATENT DOCUMENTS				
	6,075,535 A 6,154,764 A 6,158,044 A 6,167,435 A 6,204,840 B1 6,205,432 B1 6,216,141 B1 6,310,694 B1 6,353,170 B1 6,484,196 B1 6,487,586 B2 6,499,016 B1 6,665,531 B1 6,701,347 B1 6,711,608 B1 6,724,403 B1 6,757,713 B1 6,898,626 B2 6,980,909 B2 6,981,040 B1 7,004,394 B2 7,027,124 B2 7,124,164 B1 7,142,823 B1 7,149,893 B1 7,173,651 B1 7,203,380 B2 7,243,163 B1 7,254,585 B2 7,278,168 B1 7,356,564 B2 7,376,715 B2 7,411,493 B2 7,478,402 B2 7,496,347 B2 7,519,670 B2 7,535,890 B2 7,546,554 B2 7,607,096 B2 7,703,140 B2 7,778,973 B2 7,856,449 B1 7,912,896 B2 7,934,156 B2 8,001,204 B2 8,063,797 B1 8,098,904 B2 8,112,716 B2 8,131,597 B2 8,170,957 B2 8,199,747 B2 8,214,443 B2 8,238,947 B2 8,244,593 B2 8,276,092 B1 8,279,319 B2 8,312,086 B2 8,312,097 B1 8,332,475 B2 8,379,130 B2 8,405,773 B2 8,418,067 B2 8,428,453 B1 8,471,914 B2 8,542,685 B2 8,560,612 B2 8,570,907 B2 8,686,962 B2 8,687,021 B2 8,718,333 B2	6/2000 11/2000 12/2000 12/2000 3/2001 3/2001 4/2001 10/2001 3/2002 11/2002 11/2002 12/2002 12/2003 3/2004 3/2004 4/2004 6/2004 5/2005 12/2005 12/2005 2/2006 4/2006 10/2006 11/2006 12/2006 2/2007 4/2007 7/2007 8/2007 10/2007 4/2008 5/2008 8/2008 1/2009 2/2009 4/2009 5/2009 6/2009 10/2009 4/2010 8/2010 12/2010 3/2011 4/2011 8/2011 11/2011 1/2012 2/2012 3/2012 5/2012 6/2012 7/2012 8/2012 8/2012 9/2012 10/2012 11/2012 11/2012 12/2012 2/2013 3/2013 4/2013 4/2013 6/2013 9/2013 10/2013 10/2013 4/2014 4/2014 5/2014	Fitzhugh et al. Nitta et al. Tibbetts Druckenmiller et al. Petelycky et al. Gabbard et al. Straub et al. Okimoto et al. Eyzaguirre et al. Maurille Ogilvie et al. Anderson Soderbacka et al. Ogilvie Ogilvie Santoro et al. Ogilvie et al. Ohashi Root et al. Konig et al. Kim Foote et al. Chemtob Logue et al. Leonard et al. Knowles Chiu et al. Friend et al. Frieden et al. Chaudhury et al. Hartselle et al. Cunningham et al. Smith Christensen et al. Puranik Hagale et al. Rojas Chiu et al. Oreizy et al. Nath et al. Choi Martino et al. Wolovitz et al. Forstall et al. Burtner et al. Sonnabend et al. Ioffe et al. Kobayashi Hudetz Richard Rojas et al. Hamburg Lottin et al. Klinger et al. Narayanan et al. Date Velusamy et al. Siegel et al. Rosen et al. Forutanpour et al. Hayashi et al. Cheng et al. Spiegel et al. Sakiyama et al. Forbes, Jr. et al. Kilmer et al. Garcia, Jr. et al. Christie Bathiche et al. Wolf et al.	Fitzhugh et al. Nitta et al. Tibbetts Druckenmiller et al. Petelycky et al. Gabbard et al. Straub et al. Okimoto et al. Eyzaguirre et al. Maurille Ogilvie et al. Anderson Soderbacka et al. Ogilvie Ogilvie Santoro et al. Ogilvie et al. Ohashi Root et al. Konig et al. Kim Foote et al. Chemtob Logue et al. Leonard et al. Knowles Chiu et al. Friend et al. Frieden et al. Chaudhury et al. Hartselle et al. Cunningham et al. Smith Christensen et al. Puranik Hagale et al. Rojas Chiu et al. Oreizy et al. Nath et al. Choi Martino et al. Wolovitz et al. Forstall et al. Burtner et al. Sonnabend et al. Ioffe et al. Kobayashi Hudetz Richard Rojas et al. Hamburg Lottin et al. Klinger et al. Narayanan et al. Date Velusamy et al. Siegel et al. Rosen et al. Forutanpour et al. Hayashi et al. Cheng et al. Spiegel et al. Sakiyama et al. Forbes, Jr. et al. Kilmer et al. Garcia, Jr. et al. Christie Bathiche et al. Wolf et al.	

(56)

References Cited

U.S. PATENT DOCUMENTS

10,659,914 B1	5/2020	Allen et al.	2008/0055269 A1	3/2008	Lemay et al.
10,708,210 B1	7/2020	Allen et al.	2008/0062141 A1	3/2008	Chandhri
10,779,113 B2	9/2020	Sehn et al.	2008/0094387 A1	4/2008	Chen
10,811,053 B2	10/2020	Sehn	2008/0104503 A1	5/2008	Beall et al.
2001/0025316 A1	9/2001	Oh	2008/0120409 A1	5/2008	Sun et al.
2001/0028787 A1	10/2001	Nomura et al.	2008/0172413 A1	7/2008	Chiu
2002/0023101 A1*	2/2002	Kurihara G06F 16/40	2008/0207176 A1	8/2008	Brackbill et al.
2002/0047686 A1	4/2002	Kodama et al.	2008/0208692 A1	8/2008	Garaventi et al.
2002/0047858 A1	4/2002	Bayliss et al.	2008/0222545 A1	9/2008	Lemay
2002/0047868 A1	4/2002	Miyazawa	2008/0256446 A1	10/2008	Yamamoto
2002/0078456 A1	6/2002	Hudson et al.	2008/0256450 A1	10/2008	Takakura et al.
2002/0122659 A1	9/2002	Mcgrath et al.	2008/0256577 A1	10/2008	Funaki et al.
2002/0128047 A1	9/2002	Gates	2008/0263103 A1	10/2008	Mcgregor et al.
2002/0144154 A1	10/2002	Tomkow	2008/0266421 A1	10/2008	Takahata et al.
2002/0171669 A1	11/2002	Meron et al.	2008/0270938 A1	10/2008	Carlson
2003/0016247 A1	1/2003	Lai et al.	2008/0306826 A1	12/2008	Kramer et al.
2003/0016253 A1	1/2003	Aoki et al.	2008/0313346 A1	12/2008	Kujawa et al.
2003/0017823 A1	1/2003	Mager et al.	2009/0006565 A1	1/2009	Velusamy et al.
2003/0037124 A1	2/2003	Yamaura et al.	2009/0015703 A1	1/2009	Kim et al.
2003/0052925 A1	3/2003	Daimon et al.	2009/0024956 A1	1/2009	Kobayashi
2003/0074404 A1	4/2003	Parker et al.	2009/0040324 A1	2/2009	Nonaka
2003/0101230 A1	5/2003	Benschoter et al.	2009/0042588 A1	2/2009	Lottin et al.
2003/0110503 A1	6/2003	Perkes	2009/0058822 A1	3/2009	Chaudhri
2003/0126215 A1	7/2003	Udell	2009/0079846 A1	3/2009	Chou
2003/0163370 A1	8/2003	Chen et al.	2009/0089378 A1	4/2009	Maresh
2003/0164856 A1	9/2003	Prager et al.	2009/0089678 A1	4/2009	Sacco et al.
2003/0210280 A1	11/2003	Baker et al.	2009/0132453 A1	5/2009	Hangartner et al.
2003/0217106 A1	11/2003	Adar et al.	2009/0132665 A1	5/2009	Thomsen et al.
2003/0217118 A1	11/2003	Kobayashi et al.	2009/0148045 A1	6/2009	Lee et al.
2004/0027371 A1	2/2004	Jaeger	2009/0157752 A1	6/2009	Gonzalez
2004/0064429 A1	4/2004	Hirstius et al.	2009/0160970 A1	6/2009	Fredlund et al.
2004/0111467 A1	6/2004	Willis	2009/0169062 A1	7/2009	Cheung et al.
2004/0199402 A1	10/2004	Walker et al.	2009/0177299 A1	7/2009	Van De Sluis
2004/0203959 A1	10/2004	Coombes	2009/0187825 A1	7/2009	Sandquist et al.
2004/0205480 A1	10/2004	Moore	2009/0249222 A1	10/2009	Schmidt et al.
2004/0205514 A1	10/2004	Sommerer et al.	2009/0260010 A1	10/2009	Burkhart et al.
2004/0243531 A1	12/2004	Dean	2009/0265647 A1	10/2009	Martin et al.
2004/0243688 A1	12/2004	Wugofski	2009/0284658 A1	11/2009	Cho
2005/0019014 A1*	1/2005	Yoo G11B 20/10 386/217	2009/0291665 A1	11/2009	Gaskarth et al.
2005/0071435 A1	3/2005	Karstens	2010/0011316 A1	1/2010	Sar et al.
2005/0078804 A1	4/2005	Yomoda	2010/0014833 A1	1/2010	Pjanovic et al.
2005/0097176 A1	5/2005	Schatz et al.	2010/0039505 A1	2/2010	Inoue et al.
2005/0102381 A1	5/2005	Jiang et al.	2010/0073509 A1	3/2010	Shioji
2005/0104976 A1	5/2005	Currans	2010/0082427 A1	4/2010	Burgener et al.
2005/0114783 A1	5/2005	Szeto	2010/0082693 A1	4/2010	Hugg et al.
2005/0122405 A1	6/2005	Voss et al.	2010/0100729 A1	4/2010	Read et al.
2005/0193340 A1	9/2005	Amburgey et al.	2010/0115281 A1	5/2010	Camenisch et al.
2005/0193345 A1	9/2005	Klassen et al.	2010/0131880 A1	5/2010	Lee et al.
2005/0198128 A1	9/2005	Anderson	2010/0131895 A1	5/2010	Wohlert
2005/0223066 A1	10/2005	Buchheit et al.	2010/0156933 A1	6/2010	Jones et al.
2006/0004630 A1	1/2006	Criddle et al.	2010/0159944 A1	6/2010	Pascal et al.
2006/0109238 A1	5/2006	Lau et al.	2010/0161635 A1	6/2010	Dey
2006/0114338 A1	6/2006	Rothschild	2010/0161831 A1	6/2010	Haas et al.
2006/0127054 A1	6/2006	Matsuyama	2010/0183280 A1	7/2010	Beauregard et al.
2006/0242239 A1	10/2006	Morishima et al.	2010/0185665 A1	7/2010	Horn et al.
2006/0242554 A1	10/2006	Gerace et al.	2010/0185987 A1*	7/2010	Yang G06F 17/30274 715/838
2006/0265417 A1	11/2006	Amato et al.	2010/0191631 A1	7/2010	Weidmann
2006/0270419 A1	11/2006	Crowley et al.	2010/0199227 A1	8/2010	Xiao et al.
2006/0282819 A1	12/2006	Graham et al.	2010/0214436 A1	8/2010	Kim et al.
2007/0038715 A1	2/2007	Collins et al.	2010/0223128 A1	9/2010	Dukellis et al.
2007/0040931 A1	2/2007	Nishizawa	2010/0223343 A1	9/2010	Bosan et al.
2007/0064899 A1	3/2007	Boss et al.	2010/0247064 A1	9/2010	Yeh et al.
2007/0073823 A1	3/2007	Cohen et al.	2010/0251143 A1	9/2010	Thomas et al.
2007/0082707 A1	4/2007	Flynt et al.	2010/0257196 A1	10/2010	Waters et al.
2007/0192128 A1	8/2007	Celestini	2010/0273463 A1	10/2010	Bonnefoy
2007/0214216 A1	9/2007	Carrer et al.	2010/0281045 A1	11/2010	Dean
2007/0233801 A1	10/2007	Eren et al.	2010/0293105 A1	11/2010	Blinn et al.
2007/0243887 A1	10/2007	Bandhole et al.	2010/0306669 A1	12/2010	Della Pasqua
2007/0255456 A1	11/2007	Funayama	2011/0004071 A1	1/2011	Faiola et al.
2008/0005240 A1	1/2008	Knighton et al.	2011/0040783 A1	2/2011	Uemichi et al.
2008/0025701 A1	1/2008	Ikeda	2011/0040804 A1	2/2011	Peirce et al.
2008/0033930 A1	2/2008	Warren	2011/0050909 A1	3/2011	Ellenby et al.
2008/0046831 A1	2/2008	Imai et al.	2011/0050915 A1	3/2011	Wang et al.
2008/0049704 A1	2/2008	Witteman et al.	2011/0085059 A1	4/2011	Noh
			2011/0099507 A1	4/2011	Nesladek et al.
			2011/0102630 A1	5/2011	Rukes
			2011/0106882 A1	5/2011	Takakura et al.
			2011/0131633 A1	6/2011	Macaskill et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2011/0141025 A1	6/2011	Tsai	2013/0024292 A1	1/2013	David
2011/0145564 A1	6/2011	Moshir et al.	2013/0024757 A1	1/2013	Doll et al.
2011/0184980 A1	7/2011	Jeong et al.	2013/0045753 A1	2/2013	Obermeyer et al.
2011/0197194 A1	8/2011	D'Angelo et al.	2013/0050260 A1	2/2013	Reitan
2011/0202598 A1	8/2011	Evans et al.	2013/0055083 A1	2/2013	Fino
2011/0202968 A1	8/2011	Nurmi	2013/0057587 A1	3/2013	Leonard et al.
2011/0211534 A1	9/2011	Schmidt et al.	2013/0059607 A1	3/2013	Herz et al.
2011/0213845 A1	9/2011	Logan et al.	2013/0060690 A1	3/2013	Oskolkov et al.
2011/0238762 A1	9/2011	Soni et al.	2013/0063369 A1	3/2013	Malhotra et al.
2011/0255736 A1	10/2011	Thompson et al.	2013/0067027 A1	3/2013	Song et al.
2011/0273575 A1	11/2011	Lee	2013/0071093 A1	3/2013	Hanks et al.
2011/0283188 A1	11/2011	Farrenkopf	2013/0082959 A1	4/2013	Shimazu et al.
2011/0286586 A1	11/2011	Saylor et al.	2013/0085790 A1	4/2013	Palmer et al.
2011/0296474 A1	12/2011	Babic	2013/0090171 A1	4/2013	Holton et al.
2011/0302525 A1	12/2011	Jeon	2013/0095857 A1	4/2013	Garcia et al.
2011/0306387 A1*	12/2011	Moon G06F 1/1684 455/556.1	2013/0104053 A1	4/2013	Thornton et al.
2011/0314084 A1	12/2011	Saretto et al.	2013/0111514 A1	5/2013	Slavin et al.
2011/0320373 A1	12/2011	Lee et al.	2013/0128059 A1	5/2013	Kristensson
2012/0028659 A1	2/2012	Whitney et al.	2013/0132477 A1	5/2013	Bosworth et al.
2012/0036443 A1	2/2012	Ohmori et al.	2013/0132908 A1*	5/2013	Lee G06F 3/04842 715/838
2012/0054797 A1*	3/2012	Skog H04N 21/42224 725/41	2013/0144979 A1	6/2013	Kansal et al.
2012/0062805 A1	3/2012	Candelore	2013/0145286 A1	6/2013	Feng et al.
2012/0070045 A1	3/2012	Vesper et al.	2013/0169822 A1	7/2013	Zhu et al.
2012/0084731 A1	4/2012	Filman et al.	2013/0173729 A1	7/2013	Starenky et al.
2012/0084835 A1	4/2012	Thomas et al.	2013/0182133 A1	7/2013	Tanabe
2012/0108293 A1	5/2012	Law et al.	2013/0185131 A1	7/2013	Sinha et al.
2012/0110096 A1	5/2012	Smarr et al.	2013/0194301 A1	8/2013	Robbins et al.
2012/0113143 A1	5/2012	Adhikari et al.	2013/0198176 A1	8/2013	Kim
2012/0113272 A1	5/2012	Hata	2013/0222323 A1	8/2013	Mckenzie
2012/0117456 A1	5/2012	Koskimies	2013/0227476 A1	8/2013	Frey
2012/0127196 A1	5/2012	Landry	2013/0232194 A1	9/2013	Knapp et al.
2012/0131507 A1	5/2012	Sparandara et al.	2013/0263031 A1	10/2013	Oshiro et al.
2012/0131512 A1	5/2012	Takeuchi et al.	2013/0265450 A1	10/2013	Barnes, Jr.
2012/0143760 A1	6/2012	Abulafia et al.	2013/0267253 A1	10/2013	Case et al.
2012/0150978 A1	6/2012	Monaco	2013/0275505 A1	10/2013	Gauglitz et al.
2012/0158532 A1	6/2012	Fitzsimmons	2013/0290337 A1	10/2013	Lansford et al.
2012/0163664 A1	6/2012	Zhu	2013/0290443 A1	10/2013	Collins et al.
2012/0165100 A1	6/2012	Lalancette et al.	2013/0304646 A1	11/2013	De Geer
2012/0166462 A1	6/2012	Pathak et al.	2013/0325964 A1	12/2013	Berberat
2012/0166971 A1	6/2012	Sachson et al.	2013/0344896 A1	12/2013	Kirmse et al.
2012/0169855 A1	7/2012	Oh	2013/0346869 A1	12/2013	Asver et al.
2012/0173991 A1	7/2012	Roberts et al.	2013/0346877 A1	12/2013	Borovoy et al.
2012/0176401 A1	7/2012	Hayward et al.	2014/0011538 A1	1/2014	Mulcahy et al.
2012/0184248 A1	7/2012	Speede	2014/0019264 A1	1/2014	Wachman et al.
2012/0200743 A1	8/2012	Blanchflower et al.	2014/0029034 A1*	1/2014	Toriyama G06F 3/0481 358/1.13
2012/0201362 A1	8/2012	Crossan et al.	2014/0032682 A1	1/2014	Prado et al.
2012/0203849 A1	8/2012	Collins et al.	2014/0047016 A1	2/2014	Rao
2012/0209892 A1	8/2012	Macaskill et al.	2014/0047045 A1	2/2014	Baldwin et al.
2012/0209921 A1	8/2012	Adafin et al.	2014/0047335 A1	2/2014	Lewis et al.
2012/0209924 A1	8/2012	Evans et al.	2014/0049652 A1	2/2014	Moon et al.
2012/0210244 A1	8/2012	De Francisco Lopez et al.	2014/0052485 A1	2/2014	Shidfar
2012/0212632 A1	8/2012	Mate et al.	2014/0052633 A1	2/2014	Gandhi
2012/0220264 A1	8/2012	Kawabata	2014/0057660 A1	2/2014	Wager
2012/0226748 A1	9/2012	Bosworth et al.	2014/0059479 A1	2/2014	Hamburg et al.
2012/0233000 A1	9/2012	Fisher et al.	2014/0082651 A1	3/2014	Sharifi
2012/0236162 A1	9/2012	Imamura	2014/0089264 A1	3/2014	Talagala et al.
2012/0239761 A1	9/2012	Linner et al.	2014/0089314 A1	3/2014	Iizuka et al.
2012/0250951 A1	10/2012	Chen	2014/0122658 A1	5/2014	Haeger et al.
2012/0254324 A1	10/2012	Majeti et al.	2014/0122787 A1	5/2014	Shalvi et al.
2012/0254325 A1	10/2012	Majeti et al.	2014/0129627 A1	5/2014	Baldwin et al.
2012/0259815 A1	10/2012	Olson	2014/0129953 A1	5/2014	Spiegel
2012/0278387 A1	11/2012	Garcia et al.	2014/0136985 A1	5/2014	Albir et al.
2012/0278692 A1*	11/2012	Shi H04L 67/2842 715/205	2014/0143143 A1	5/2014	Fasoli et al.
2012/0281129 A1	11/2012	Wang et al.	2014/0149519 A1	5/2014	Redfern et al.
2012/0288147 A1	11/2012	Fujitani	2014/0155102 A1	6/2014	Cooper et al.
2012/0290637 A1	11/2012	Perantatos et al.	2014/0173457 A1	6/2014	Wang et al.
2012/0299954 A1	11/2012	Wada et al.	2014/0188815 A1	7/2014	Mentz et al.
2012/0304080 A1	11/2012	Wormald et al.	2014/0189592 A1	7/2014	Benchenaa et al.
2012/0307096 A1	12/2012	Bray et al.	2014/0201527 A1*	7/2014	Krivorot G06F 21/6209 713/168
2012/0311623 A1	12/2012	Davis et al.	2014/0207679 A1	7/2014	Cho
2012/0323933 A1	12/2012	He et al.	2014/0214471 A1	7/2014	Schreiner, III
2012/0324018 A1	12/2012	Metcalf et al.	2014/0222564 A1	8/2014	Kranendonk et al.
			2014/0279061 A1	9/2014	Elimeliah et al.
			2014/0279128 A1	9/2014	Sagebin
			2014/0279436 A1	9/2014	Dorsey et al.
			2014/0280537 A1	9/2014	Pridmore et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2014/0282096 A1 9/2014 Rubinstein et al.
 2014/0289833 A1 9/2014 Briceno
 2014/0298210 A1 10/2014 Park et al.
 2014/0304622 A1 10/2014 Jorasch et al.
 2014/0317302 A1 10/2014 Naik
 2014/0325383 A1 10/2014 Brown et al.
 2014/0331188 A1 11/2014 Sandstrom et al.
 2014/0359024 A1 12/2014 Spiegel
 2014/0359032 A1 12/2014 Spiegel et al.
 2014/0372844 A1 12/2014 Zumkhawala
 2014/0379683 A1 12/2014 Bazaz
 2015/0012603 A1 1/2015 Saito
 2015/0013016 A1 1/2015 Kanter et al.
 2015/0020086 A1 1/2015 Chen et al.
 2015/0040011 A1* 2/2015 Chun H04N 21/252
 715/723
 2015/0043033 A1 2/2015 Sugimoto
 2015/0046278 A1 2/2015 Pei et al.
 2015/0055197 A1 2/2015 Romanoff et al.
 2015/0058957 A1 2/2015 Halliday et al.
 2015/0063724 A1 3/2015 Ikeda et al.
 2015/0071619 A1 3/2015 Brough
 2015/0087263 A1 3/2015 Branscomb et al.
 2015/0088622 A1 3/2015 Ganschow et al.
 2015/0094106 A1 4/2015 Grossman et al.
 2015/0116529 A1 4/2015 Wu et al.
 2015/0127754 A1 5/2015 Clark et al.
 2015/0130178 A1 5/2015 Clements
 2015/0134318 A1 5/2015 Cuthbert et al.
 2015/0142753 A1 5/2015 Soon-shiong
 2015/0172534 A1 6/2015 Miyakawaa et al.
 2015/0177937 A1 6/2015 Poletto et al.
 2015/0178260 A1 6/2015 Brunson
 2015/0193685 A1 7/2015 Srinivasan et al.
 2015/0199082 A1 7/2015 Scholler et al.
 2015/0227602 A1 8/2015 Ramu et al.
 2015/0248683 A1 9/2015 Walkingshaw
 2015/0312184 A1 10/2015 Langholz et al.
 2015/0325268 A1* 11/2015 Berger H04N 21/26258
 386/248
 2015/0326510 A1 11/2015 Tomlinson et al.
 2015/0350136 A1 12/2015 Flynn, III et al.
 2015/0365795 A1 12/2015 Allen et al.
 2015/0367233 A1 12/2015 Hicks et al.
 2015/0378502 A1 12/2015 Hu et al.
 2015/0381688 A1 12/2015 Jenkins et al.
 2016/0006927 A1 1/2016 Sehn
 2016/0034253 A1 2/2016 Bang et al.
 2016/0048369 A1 2/2016 Zenoff
 2016/0085773 A1 3/2016 Chang et al.
 2016/0085863 A1 3/2016 Allen et al.
 2016/0085994 A1 3/2016 Pereira
 2016/0086670 A1 3/2016 Gross et al.
 2016/0092962 A1 3/2016 Wasserman et al.
 2016/0099901 A1 4/2016 Allen et al.
 2016/0105387 A1 4/2016 Jackson
 2016/0134941 A1 5/2016 Selvaraj
 2016/0180887 A1 6/2016 Sehn
 2016/0182422 A1 6/2016 Sehn et al.
 2016/0182875 A1 6/2016 Sehn
 2016/0239248 A1 8/2016 Sehn
 2016/0253833 A1 9/2016 Lew
 2016/0253912 A1 9/2016 Heilman et al.
 2016/0277419 A1 9/2016 Allen et al.
 2016/0321708 A1 11/2016 Sehn
 2016/0352659 A1 12/2016 Krishnamoorth
 2016/0359957 A1 12/2016 Laliberte
 2016/0359987 A1 12/2016 Laliberte
 2017/0111617 A1 4/2017 Kuwahara et al.
 2017/0149717 A1 5/2017 Sehn
 2017/0161382 A1 6/2017 Ouimet et al.
 2017/0263029 A1 9/2017 Yan et al.
 2017/0287006 A1 10/2017 Azmoodeh et al.
 2017/0295250 A1 10/2017 Samaranayake et al.
 2017/0310888 A1 10/2017 Wright et al.

2017/0329481 A1 11/2017 Stoop et al.
 2017/0374003 A1 12/2017 Allen et al.
 2017/0374508 A1 12/2017 Davis et al.
 2018/0103002 A1 4/2018 Sehn
 2018/0316575 A1 11/2018 Son et al.
 2019/0097812 A1 3/2019 Toth
 2019/0237106 A1 8/2019 Sehn
 2019/0342699 A1 11/2019 Sehn et al.
 2019/0372991 A1 12/2019 Allen et al.
 2020/0057590 A1 2/2020 Sehn
 2020/0105304 A1 4/2020 Sehn
 2020/0193053 A1 6/2020 Murphy et al.
 2020/0213804 A1 7/2020 Sehn et al.
 2020/0288270 A1 9/2020 Allen et al.

FOREIGN PATENT DOCUMENTS

CA 29101580 C 6/2019
 CN 102118419 A 7/2011
 CN 103297936 A 9/2013
 CN 107004225 A 8/2017
 KR 20060043137 A 5/2006
 WO WO-2011040821 A1 4/2011
 WO WO-2012000107 A1 1/2012
 WO WO-2013008251 A2 1/2013
 WO WO-2014093668 A1 6/2014
 WO WO-2014194262 A2 12/2014
 WO WO-2015192026 A1 12/2015
 WO WO-2016007285 A1 1/2016
 WO WO-2016054562 A1 4/2016
 WO WO-2016065131 A1 4/2016
 WO WO-2016100318 A2 6/2016
 WO WO-2016100318 A3 6/2016
 WO WO-2016100342 A1 6/2016
 WO WO-2016/112299 A1 7/2016
 WO WO-2016149594 A1 9/2016
 WO WO-2016179166 A1 11/2016
 WO WO-2016179235 A1 11/2016
 WO WO-2017176739 A1 10/2017
 WO WO-2017176992 A1 10/2017
 WO WO-2018005644 A1 1/2018

OTHER PUBLICATIONS

US 10,425,370 B2, 09/2019, Allen et al. (withdrawn)
 US 10,484,394 B2, 11/2019, Allen et al. (withdrawn)
 US 10,503,924 B1, 12/2019, Murphy et al. (withdrawn)
 "U.S. Appl. No. 14/612,692, Response filed May 3, 2017 to Non Final Office Action dated Jan. 3, 2017", 18 pgs.
 "U.S. Appl. No. 14/634,417, Advisory Action dated Mar. 24, 2017", 3 pgs.
 "U.S. Appl. No. 14/634,417, Final Office Action dated Jan. 31, 2017", 27 pgs.
 "U.S. Appl. No. 14/634,417, Non Final Office Action dated Jun. 8, 2017", 17 pgs.
 "U.S. Appl. No. 14/634,417, Response filed Mar. 2, 2017 to Final Office Action dated Jan. 31, 2017", 23 pgs.
 "U.S. Appl. No. 14/967,472, Final Office Action dated Mar. 10, 2017", 15 pgs.
 "U.S. Appl. No. 14/967,472, Response filed Jun. 7, 2017 to Final Office Action dated Mar. 10, 2017", 12 pgs.
 "U.S. Appl. No. 15/152,975, Response filed Jun. 12, 2017 to Non Final Office Action dated Jan. 12, 2017", 13 pgs.
 "U.S. Appl. No. 15/208,460, Notice of Allowance dated Feb. 27, 2017", 8 pgs.
 "U.S. Appl. No. 15/224,312, Preliminary Amendment filed Feb. 1, 2017", 11 pgs.
 "U.S. Appl. No. 15/224,343, Preliminary Amendment filed Jan. 31, 2017", 10 pgs.
 "U.S. Appl. No. 15/224,355, Preliminary Amendment filed Apr. 3, 2017", 12 pgs.
 "U.S. Appl. No. 15/224,372, Preliminary Amendment filed May 5, 2017", 10 pgs.
 "U.S. Appl. No. 15/298,806, Non Final Office Action dated Jun. 12, 2017", 26 pgs.

(56)

References Cited

OTHER PUBLICATIONS

“U.S. Appl. No. 15/416,846, Preliminary Amendment filed Feb. 18, 2017”, 10 pgs.

“Canadian Application Serial No. 2,910,158, Response filed Apr. 11, 2017 to Office Action dated Dec. 15, 2016”, 21 pgs.

“How Snaps Are Stored and Deleted”, Snapchat, [Online]. Retrieved from the Internet: <URL: <https://web.archive.org/web/20130607042322/http://blog.snapchat.com/post/50060403002/how-snaps-are-stored-and-deleted>, (May 9, 2013), 2 pgs.

“International Application Serial No. PCT/US2015/053811, International Preliminary Report on Patentability dated Apr. 13, 2017”, 9 pgs.

“International Application Serial No. PCT/US2015/056884, International Preliminary Report on Patentability dated May 4, 2017”, 8 pgs.

Leyden, John, “This SMS will self-destruct in 40 seconds”, [Online]. Retrieved from the Internet: <URL: <http://www.theregister.co.uk/2005/12/12/stealthtext/>, (Dec. 12, 2005), 1 pg.

Shein, Esther, “Ephemeral Data”, Communications of the ACM vol. 56 | No. 9, (Sep. 2013), 20-22.

“U.S. Appl. No. 14/304,855, Corrected Notice of Allowance dated Jun. 26, 2015”, 8 pgs.

“U.S. Appl. No. 14/304,855, Final Office Action dated Feb. 18, 2015”, 10 pgs.

“U.S. Appl. No. 14/304,855, Non Final Office Action dated Mar. 18, 2015”, 9 pgs.

“U.S. Appl. No. 14/304,855, Non Final Office Action dated Oct. 22, 2014”, 11 pgs.

“U.S. Appl. No. 14/304,855, Notice of Allowance dated Jun. 1, 2015”, 11 pgs.

“U.S. Appl. No. 14/304,855, Response filed Feb. 25, 2015 to Final Office Action dated Feb. 18, 2015”, 5 pgs.

“U.S. Appl. No. 14/304,855, Response filed Apr. 1, 2015 to Non Final Office Action dated Mar. 18, 2015”, 4 pgs.

“U.S. Appl. No. 14/304,855, Response filed Nov. 7, 2014 to Non Final Office Action dated Oct. 22, 2014”, 5 pgs.

“U.S. Appl. No. 14/505,478, Advisory Action dated Apr. 14, 2015”, 3 pgs.

“U.S. Appl. No. 14/505,478, Corrected Notice of Allowance dated May 18, 2016”, 2 pgs.

“U.S. Appl. No. 14/505,478, Corrected Notice of Allowance dated Jul. 22, 2016”, 2 pgs.

“U.S. Appl. No. 14/505,478, Final Office Action dated Mar. 17, 2015”, 16 pgs.

“U.S. Appl. No. 14/505,478, Non Final Office Action dated Jan. 27, 2015”, 13 pgs.

“U.S. Appl. No. 14/505,478, Non Final Office Action dated Sep. 4, 2015”, 19 pgs.

“U.S. Appl. No. 14/505,478, Notice of Allowance dated Apr. 28, 2016”, 11 pgs.

“U.S. Appl. No. 14/505,478, Notice of Allowance dated Aug. 26, 2016”, 11 pgs.

“U.S. Appl. No. 14/505,478, Response filed Jan. 30, 2015 to Non Final Office Action dated Jan. 27, 2015”, 10 pgs.

“U.S. Appl. No. 14/505,478, Response filed Mar. 4, 2016 to Non Final Office Action dated Sep. 4, 2015”, 12 pgs.

“U.S. Appl. No. 14/505,478, Response filed Apr. 1, 2015 to Final Office Action dated Mar. 17, 2015”, 6 pgs.

“U.S. Appl. No. 14/506,478, Response filed Aug. 17, 2015 to Advisory Action dated Apr. 14, 2015”, 10 pgs.

“U.S. Appl. No. 14/523,728, Non Final Office Action dated Dec. 12, 2014”, 10 pgs.

“U.S. Appl. No. 14/523,728, Notice of Allowance dated Mar. 24, 2015”, 8 pgs.

“U.S. Appl. No. 14/523,728, Notice of Allowance dated Apr. 15, 2015”, 8 pgs.

“U.S. Appl. No. 14/523,728, Notice of Allowance dated Jun. 5, 2015”, 8 pgs.

“U.S. Appl. No. 14/523,728, Response filed Aug. 25, 2014 to Non Final Office Action dated Jan. 16, 2015”, 5 pgs.

“U.S. Appl. No. 14/529,064, Final Office Action dated Aug. 11, 2015”, 23 pgs.

“U.S. Appl. No. 14/529,064, Non Final Office Action dated Mar. 12, 2015”, 20 pgs.

“U.S. Appl. No. 14/529,064, Non Final Office Action dated Apr. 18, 2016”, 21 pgs.

“U.S. Appl. No. 14/529,064, Response filed Feb. 5, 2015 to Restriction Requirement dated Feb. 2, 2015”, 6 pgs.

“U.S. Appl. No. 14/529,064, Response filed Mar. 26, 2015 to Non Final Office Action dated Mar. 12, 2015”, 8 pgs.

“U.S. Appl. No. 14/529,064, Restriction Requirement dated Feb. 2, 2015”, 5 pgs.

“U.S. Appl. No. 14/529,064, Response filed Oct. 12, 2015 to Final Office Action dated Aug. 11, 2015”, 19 pgs.

“U.S. Appl. No. 14/578,258, Examiner Interview Summary dated Nov. 25, 2015”, 3 pgs.

“U.S. Appl. No. 14/578,258, Non Final Office Action dated Jun. 10, 2015”, 12 pgs.

“U.S. Appl. No. 14/578,258, Notice of Allowance dated Feb. 26, 2016”, 5 pgs.

“U.S. Appl. No. 14/578,258, Response filed Dec. 10, 2015 to Non Final Office Action dated Jun. 10, 2015”, 11 pgs.

“U.S. Appl. No. 14/578,271, Final Office Action dated Dec. 3, 2015”, 15 pgs.

“U.S. Appl. No. 14/578,271, Non Final Office Action dated Aug. 7, 2015”, 12 pgs.

“U.S. Appl. No. 14/578,271, Notice of Allowance dated Dec. 7, 2016”, 7 pgs.

“U.S. Appl. No. 14/578,271, Response filed Feb. 9, 2016 to Final Office Action dated Dec. 3, 2015”, 10 pgs.

“U.S. Appl. No. 14/578,271, Response filed Jun. 19, 2015 to Restriction Requirement dated Apr. 23, 2015”, 6 pgs.

“U.S. Appl. No. 14/578,271, Response filed Oct. 28, 2015 to Non Final Office Action dated Aug. 7, 2015”, 9 pgs.

“U.S. Appl. No. 14/578,271, Restriction Requirement dated Apr. 23, 2015”, 8 pgs.

“U.S. Appl. No. 14/612,692, Examiner Interview Summary dated Jan. 29, 2016”, 5 pgs.

“U.S. Appl. No. 14/612,692, Examiner Interview Summary dated Jul. 6, 2016”, 4 pgs.

“U.S. Appl. No. 14/612,692, Examiner Interview Summary dated Aug. 14, 2015”, 3 pgs.

“U.S. Appl. No. 14/612,692, Examiner Interview Summary dated Sep. 8, 2016”, 3 pgs.

“U.S. Appl. No. 14/612,692, Final Office Action dated Aug. 15, 2016”, 18 pgs.

“U.S. Appl. No. 14/612,692, Final Office Action dated Nov. 23, 2015”, 15 pgs.

“U.S. Appl. No. 14/612,692, Non Final Office Action dated Jan. 3, 2017”, 17 pgs.

“U.S. Appl. No. 14/612,692, Non Final Office Action dated Mar. 28, 2016”, 15 pgs.

“U.S. Appl. No. 14/612,692, Non Final Office Action dated Jul. 20, 2015”, 25 pgs.

“U.S. Appl. No. 14/612,692, Response filed Feb. 23, 2016 to Final Office Action dated Nov. 23, 2015”, 10 pgs.

“U.S. Appl. No. 14/612,692, Response filed Nov. 14, 2016 to Final Office Action dated Aug. 15, 2016”, 15 pgs.

“U.S. Appl. No. 14/612,692, Response filed Jun. 28, 2016 to Non Final Office Action dated Mar. 28, 2016”, 14 pgs.

“U.S. Appl. No. 14/612,692, Response filed Oct. 19, 2015 to Non Final Office Action dated Jul. 20, 2015”, 11 pgs.

“U.S. Appl. No. 14/634,417, Non Final Office Action dated Aug. 30, 2016”, 23 pgs.

“U.S. Appl. No. 14/634,417, Response filed Nov. 30, 2016 to Non Final Office Action dated Aug. 30, 2016”, 18 pgs.

“U.S. Appl. No. 14/704,212, Non Final Office Action dated Dec. 4, 2015”, 17 pgs.

“U.S. Appl. No. 14/704,212, Response filed Mar. 4, 2016 to Non Final Office Action dated Dec. 4, 2015”, 11 pgs.

“U.S. Appl. No. 14/738,069, Non Final Office Action dated Mar. 21, 2016”, 12 pgs.

(56)

References Cited

OTHER PUBLICATIONS

“U.S. Appl. No. 14/738,069, Notice of Allowance dated Aug. 17, 2016”, 6 pgs.

“U.S. Appl. No. 14/738,069, Response filed Jun. 10, 2016 to Non Final Office Action dated Mar. 21, 2016”, 10 pgs.

“U.S. Appl. No. 14/808,283, Notice of Allowance dated Apr. 12, 2016”, 9 pgs.

“U.S. Appl. No. 14/808,283, Notice of Allowance dated Jul. 14, 2016”, 8 pgs.

“U.S. Appl. No. 14/808,283, Preliminary Amendment filed Jul. 24, 2015”, 8 pgs.

“U.S. Appl. No. 14/967,472, Non Final Office Action dated Sep. 8, 2016”, 11 pgs.

“U.S. Appl. No. 14/967,472, Preliminary Amendment filed Dec. 15, 2015”, 6 pgs.

“U.S. Appl. No. 14/967,472, Response filed Dec. 5, 2016 to Non Final Office Action dated Sep. 8, 2016”, 11 pgs.

“U.S. Appl. No. 15/137,608, Preliminary Amendment filed Apr. 26, 2016”, 6 pgs.

“U.S. Appl. No. 15/152,975, Non Final Office Action dated Jan. 12, 2017”, 36 pgs.

“U.S. Appl. No. 15/152,975, Preliminary Amendment filed May 19, 2016”, 8 pgs.

“U.S. Appl. No. 15/208,460, Notice of Allowance dated Dec. 30, 2016”, 9 pgs.

“U.S. Appl. No. 15/208,460, Supplemental Preliminary Amendment filed Jul. 18, 2016”, 8 pgs.

“U.S. Appl. No. 15/298,806, Preliminary Amendment filed Oct. 21, 2016”, 8 pgs.

“Canadian Application Serial No. 2,894,332, Office Action dated Aug. 16, 2016”, 4 pgs.

“Canadian Application Serial No. 2,910,158, Office Action dated Dec. 15, 2016”, 5 pgs.

“International Application Serial No. PCT/EP2008/063682, International Search Report dated Nov. 24, 2008”, 3 pgs.

“International Application Serial No. PCT/US2015/035591, International Search Report dated Aug. 11, 2015”, 5 pgs.

“International Application Serial No. PCT/US2015/035591, International Written Opinion dated Aug. 11, 2015”, 5 pgs.

“International Application Serial No. PCT/US2015/053811, International Search Report dated Nov. 23, 2015”, 5 pgs.

“International Application Serial No. PCT/US2015/053811, Written Opinion dated Nov. 23, 2015”, 8 pgs.

“International Application Serial No. PCT/US2015/056884, International Search Report dated Dec. 22, 2015”, 5 pgs.

“International Application Serial No. PCT/US2015/056884, Written Opinion dated Dec. 22, 2015”, 6 pgs.

“International Application Serial No. PCT/US2015/065785, International Search Report dated Jul. 21, 2016”, 5 pgs.

“International Application Serial No. PCT/US2015/065785, Written Opinion dated Jul. 21, 2016”, 5 pgs.

“International Application Serial No. PCT/US2015/065821, International Search Report dated Mar. 3, 2016”, 2 pgs.

“International Application Serial No. PCT/US2015/065821, Written Opinion dated Mar. 3, 2016”, 3 pgs.

“International Application Serial No. PCT/US2016/023085, International Search Report dated Jun. 17, 2016”, 5 pgs.

“International Application Serial No. PCT/US2016/023085, Written Opinion dated Jun. 17, 2016”, 6 pgs.

“iVisit Mobile Getting Started”, Ivisit, (Dec. 4, 2013), 1-16.

“PearlEyes by Red Giant”, © 2002-2015 Red Giant LLC, [Online]. Retrieved from the Internet: <URL: <http://www.redgiant.com/products/pluraleyes/>, (Accessed Nov. 11, 2015), 5 pgs.

Castelluccia, Claude, et al., “EphPub: Toward robust Ephemeral Publishing”, Network Protocols (ICNP), 2011 19th IEEE International Conference on, IEEE, (Oct. 17, 2011), 18 pgs.

Clarke, Tangier, “Automatically syncing multiple clips and lots of audio like PluralEyes possible?”, [Online]. Retrieved from the Internet: <URL: <https://forums.creativecow.net/thread/344/20553>, (May 21, 2013), 8 pgs.

Melanson, Mike, “This text message will self destruct in 60 seconds”, readwrite.com, [Online]. Retrieved from the Internet: <http://readwrite.com/2011/02/11/this_text_message_will_self_destruct_in_60_seconds>, (Feb. 18, 2015).

Sawers, Paul, “Snapchat for ios lets you send photos to friends and set how long they’re visible for”, <http://thenextweb.com/apps/2012/05/07/snapchat-for-ios-lets-you-send-photos-to-f riends-and-set-how-long-theyre-visible-for>, (May 2012), 1-3 pgs.

Sawers, Paul, “Snapchatfor iOS Lets You Send Photos to Friends and Set How long They’re Visible for”, [Online]. Retrieved from the Internet: <[http:// thenextweb.com/apps/2012/05/07/Snapchat-for-ios-lets-you-send-photos-to-friends-and-set-how-long-theyre-visiblefor/#! xCjrp](http://thenextweb.com/apps/2012/05/07/Snapchat-for-ios-lets-you-send-photos-to-friends-and-set-how-long-theyre-visiblefor/#! xCjrp)>, (May 7, 2012), 1-5.

Trice, Andrew, “My Favorite New Feature: Multi-Clip Sync in Premiere Pro CC”, [Online]. Retrieved from the Internet: <URL: <http://www.tricedesigns.com/2013/06/18/my-favorite-new-feature-multi-cam-synch-in-premiere-pro-cc/>, (Jun. 18, 2013), 5 pgs.

U.S. Appl. No. 14/723,400, U.S. Pat. No. 9,396,354, filed May 27, 2015, Apparatus and Method for Automated Privacy Protection in Distributed Images.

U.S. Appl. No. 15/212,095, U.S. Pat. No. 9,785,796, filed Jul. 15, 2016, Apparatus and Method for Automated Privacy Protection in Distributed Images.

U.S. Appl. No. 15/729,584, filed Oct. 10, 2017, Apparatus and Method for Automated Privacy Protection in Distributed Images.

“Android Getting Started Guide”, Voxel Business, [Online]. Retrieved from the Internet: <<https://voxer.com/assets/AndroidGuide.pdf>>, (Feb. 1, 2014), 18 pgs.

“U.S. Appl. No. 14/578,271, Notice of Allowability dated Nov. 29, 2017”, 3 pgs.

“U.S. Appl. No. 14/612,692, Examiner Interview Summary dated Nov. 13, 2017”, 13 pgs.

“U.S. Appl. No. 14/612,692, Non Final Office Action dated Jan. 9, 2018”, 19 pgs.

“U.S. Appl. No. 14/612,692, Response Filed Nov. 22, 2017 to Final Office Action dated Aug. 25, 2017”, 11 pgs.

“U.S. Appl. No. 14/723,400, Non Final Office Action dated Jan. 4, 2016”, 14 pgs.

“U.S. Appl. No. 14/723,400, Notice of Allowance dated Jul. 20, 2015”, 12 pgs.

“U.S. Appl. No. 14/723,400, Notice of Allowance dated Mar. 28, 2016”, 12 pgs.

“U.S. Appl. No. 14/723,400, Notice of Non Compliant Amendment dated Sep. 21, 2015”, 2 pgs.

“U.S. Appl. No. 14/723,400, Notice of Non Compliant Amendment dated Nov. 10, 2015”, 2 pgs.

“U.S. Appl. No. 14/723,400, Response filed Jan. 29, 2016 to Final Office Action dated Jan. 4, 2016”, 8 pgs.

“U.S. Appl. No. 14/723,400, Response filed Aug. 13, 2015 to Non Final Office Action dated Jul. 20, 2015”, 7 pgs.

“U.S. Appl. No. 14/723,400, Response filed Sep. 23, 2015 to Notice of Non Compliant Amendment dated Sep. 21, 2015”, 5 pgs.

“U.S. Appl. No. 14/723,400, Response filed Nov. 19, 2015 to Notice of Non Compliant Amendment dated Nov. 10, 2015”, 5 pgs.

“U.S. Appl. No. 14/967,472, Final Office Action dated Jan. 12, 2018”, 17 pgs.

“U.S. Appl. No. 15/074,029, Non Final Office Action dated Nov. 30, 2017”, 16 pgs.

“U.S. Appl. No. 15/152,975, Examiner Interview Summary dated Nov. 13, 2017”, 13 pgs.

“U.S. Appl. No. 15/152,975, Non Final Office Action dated Jan. 10, 2018”, 18 pgs.

“U.S. Appl. No. 15/152,975, Response filed Nov. 30, 2017 to Final Office Action dated Jun. 30, 2017”, 9 pgs.

“U.S. Appl. No. 15/212,095, Final Office Action dated Mar. 14, 2017”, 9 pgs.

“U.S. Appl. No. 15/212,095, Non Final Office Action dated Feb. 2, 2017”, 8 pgs.

“U.S. Appl. No. 15/212,095, Notice of Allowance dated Jun. 1, 2017”, 8 pgs.

“U.S. Appl. No. 15/212,095, Notice of Allowance dated Sep. 8, 2017”, 2 pgs.

(56)

References Cited

OTHER PUBLICATIONS

“U.S. Appl. No. 15/212,095, Response filed Feb. 28, 2017 to Non Final Office Action dated Feb. 2, 2017”, 2 pgs.
 “U.S. Appl. No. 15/212,095, Response filed May 15, 2017 to Final Office Action dated Mar. 14, 2017”, 2 pgs.
 “U.S. Appl. No. 15/224,372, Response filed Jan. 8, 2017 to Non Final Office Action dated Aug. 7, 2017”, 22 pgs.
 “U.S. Appl. No. 15/224,377, Final Office Action dated Jan. 2, 2018”, 29 pgs.
 “U.S. Appl. No. 15/224,377, Response filed Dec. 6, 2017 to Non Final Office Action dated Aug. 4, 2017”, 22 pgs.
 “U.S. Appl. No. 15/224,383, Preliminary Amendment filed May 9, 2017”, 13 pgs.
 “U.S. Appl. No. 15/224,383, Response filed Jan. 3, 2018 to Non Final Office Action dated Aug. 30, 2017”, 25 pgs.
 “U.S. Appl. No. 15/298,806, Examiner Interview Summary dated Jan. 12, 2018”, 3 pgs.
 “U.S. Appl. No. 15/298,806, Response filed Jan. 9, 2018 to Final Office Action dated Oct. 24, 2017”, 17 pgs.
 “Canadian Application Serial No. 2,894,332, Response filed Jan. 24, 2017 to Office Action dated Aug. 16, 2016”, 15 pgs.
 “European Application Serial No. 14804343.3, Extended European Search Report dated Sep. 29, 2016”, 12 pgs.
 “European Application Serial No. 15870874.3, Extended European Search Report dated Nov. 29, 2017”, 7 pgs.
 “International Application Serial No. PCT/US2014/040346, International Search Report dated Mar. 23, 2015”, 2 pgs.
 “International Application Serial No. PCT/US2014/040346, Written Opinion dated Mar. 23, 2015”, 6 pgs.
 “International Application Serial No. PCT/US2015/037251, International Search Report dated Sep. 29, 2015”, 2 pgs.
 “International Application Serial No. PCT/US2015/037251, Written Opinion dated Sep. 29, 2015”, 4 pgs.
 Fajman, “An Extensible Message Format for Message Disposition Notifications”, Request for Comments: 2298, National Institutes of Health, (Mar. 1998), 28 pgs.
 “U.S. Appl. No. 14/612,692, Examiner Interview Summary dated May 14, 2018”, 3 pgs.
 “U.S. Appl. No. 14/612,692, Notice of Allowance dated Jul. 5, 2018”, 11 pgs.
 “U.S. Appl. No. 14/612,692, Response Filed May 9, 2018 to Non Final Office Action dated Jan. 9, 2018”, 15 pgs.
 “U.S. Appl. No. 14/634,417, Notice of Allowance dated May 22, 2018”, 9 pgs.
 “U.S. Appl. No. 14/967,472, Final Office Action dated Jun. 25, 2018”, 14 pgs.
 “U.S. Appl. No. 14/967,472, Response filed Mar. 16, 2018 Non Final Office Action dated Jan. 12, 2018”, 13 pgs.
 “U.S. Appl. No. 15/074,029, Final Office Action dated Jun. 28, 2018”, 22 pgs.
 “U.S. Appl. No. 15/074,029, Response filed Feb. 28, 2018 to Non Final Office Action dated Nov. 30, 2017”, 12 pgs.
 “U.S. Appl. No. 15/074,029, Response filed Aug. 28, 2018 to Final Office Action dated Jun. 28, 2018”, 21 pgs.
 “U.S. Appl. No. 15/152,975, Examiner Interview Summary dated May 14, 2018”, 3 pgs.
 “U.S. Appl. No. 15/152,975, Final Office Action dated Jul. 2, 2018”, 19 pgs.
 “U.S. Appl. No. 15/152,975, Response Filed May 10, 2018 to Non Final Office Action dated Jan. 10, 2018”, 13 pgs.
 “U.S. Appl. No. 15/224,312, Final Office Action dated Apr. 20, 2018”, 22 pgs.
 “U.S. Appl. No. 15/224,312, Response filed Aug. 20, 2018 to Final Office Action dated Apr. 20, 2018”, 16 pgs.
 “U.S. Appl. No. 15/224,343, Final Office Action dated Apr. 19, 2018”, 20 pgs.
 “U.S. Appl. No. 15/224,343, Response filed Jul. 19, 2018 to Final Office Action dated Apr. 19, 2018”, 16 pgs.
 “U.S. Appl. No. 15/224,343, Response filed Mar. 5, 2018 to Non Final Office Action dated Oct. 4, 2017”, 23 pgs.

“U.S. Appl. No. 15/224,355, Final Office Action dated Apr. 24 2018”, 20 pgs.
 “U.S. Appl. No. 15/224,355, Response filed Mar. 6, 2018 to Non Final Office Action dated Sep. 6, 2017”, 25 pgs.
 “U.S. Appl. No. 15/224,365, Final Office Action dated Apr. 2, 2018”, 19 pgs.
 “U.S. Appl. No. 15/224,365, Response filed Feb. 8, 2018 to Non Final Office Action dated Aug. 8, 2017”, 14 pgs.
 “U.S. Appl. No. 15/224,372, Final Office Action dated Apr. 3, 2018”, 18 pgs.
 “U.S. Appl. No. 15/224,372, Response filed Aug. 3, 2018 to Final Office Action dated Apr. 3, 2018”, 14 pgs.
 “U.S. Appl. No. 15/224,377, Non Final Office Action dated Jun. 15, 2018”, 19 pgs.
 “U.S. Appl. No. 15/224,383, Examiner Interview Summary dated Aug. 15, 2018”, 4 pgs.
 “U.S. Appl. No. 15/224,383, Final Office Action dated Feb. 14, 2018”, 25 pgs.
 “U.S. Appl. No. 15/224,383, Non Final Office Action dated Jul. 5, 2018”, 19 pgs.
 “U.S. Appl. No. 15/224,383, Response filed Jun. 14, 2018 to Final Office Action dated Feb. 14, 2018”, 14 pgs.
 “U.S. Appl. No. 15/298,806, Advisory Action dated Jan. 29, 2018”, 4 pgs.
 “U.S. Appl. No. 15/298,806, Examiner Interview Summary dated Aug. 13, 2018”, 3 pgs.
 “U.S. Appl. No. 15/298,806, Non Final Office Action dated May 17, 2018”, 16 pgs.
 “U.S. Appl. No. 15/298,806, Response filed Aug. 10, 2018 to Non Final Office Action dated May 17, 2018”, 15 pgs.
 “U.S. Appl. No. 15/729,582, Non Final Office Action dated May 25, 2018”, 14 pgs.
 “U.S. Appl. No. 15/787,467, Non Final Office Action dated Apr. 18, 2018”, 17 pgs.
 “U.S. Appl. No. 15/787,467, Response filed Jul. 18, 2018 to Non Final Office Action dated Apr. 18, 2018”, 12 pgs.
 “U.S. Appl. No. 16/000,657, Preliminary Amendment filed Jun. 6, 2018”, 8 pgs.
 “Canadian Application Serial No. 2,894,332, Request for Reinstatement filed Jun. 11, 2018”, w/Amended Claims, 17 pgs.
 “Canadian Application Serial No. 2,910,158, Office Action dated Jun. 6, 2018”, 5 pgs.
 Chen, Datong, et al., “Protecting Personal Identification in Video”, Protecting Privacy in Video Surveillance, Springer-Verlag London Ltd., (2009), 115-128.
 Vaas, Lisa, “StealthText, Should You Choose to Accept It”, URL: <http://www.eweek.com/print/c/a/MessagingandCollaboration/StealthTextShouldYouChoosetoAcceptIt>, (Dec. 13, 2005), 2 pgs.
 “U.S. Appl. No. 14/967,472, Notice of Allowance dated Jan. 24, 2019”, 6 pgs.
 “U.S. Appl. No. 14/967,472, Response filed Sep. 21, 2018 to Final Office Action dated Jun. 25, 2018”, 11 pgs.
 “U.S. Appl. No. 15/074,029, Advisory Action dated Oct. 11, 2018”, 3 pgs.
 “U.S. Appl. No. 15/074,029, Non Final Office Action dated Oct. 11, 2018”, 19 pgs.
 “U.S. Appl. No. 15/137,608, Amendment and Response filed Jan. 23, 2018 to Non Final Office Action dated Jan. 23, 2018”, 13 pgs.
 “U.S. Appl. No. 15/137,608, Non Final Office Action dated Nov. 2, 2018”, 10 pgs.
 “U.S. Appl. No. 15/152,975, Examiner Interview Summary dated Feb. 4, 2018”, 7 pgs.
 “U.S. Appl. No. 15/152,975, Non Final Office Action dated Sep. 28, 2018”, 28 pgs.
 “U.S. Appl. No. 15/152,975, Response filed Jan. 28, 2010 to Non Final Office Action dated Sep. 28, 2018”, 17 pgs.
 “U.S. Appl. No. 15/152,975, Response filed Sep. 19, 2018 to Final Office Action dated Jul. 2, 2018”, 14 pgs.
 “U.S. Appl. No. 15/224,312, Non Final Office Action dated Oct. 22, 2018”, 15 pgs.
 “U.S. Appl. No. 15/224,312, Response filed Feb. 22, 2019 to Non Final Office Action dated Oct. 22, 2018”, 14 pgs.

(56)

References Cited

OTHER PUBLICATIONS

- “U.S. Appl. No. 15/224,343, Amendment and Response filed Feb. 4, 2019 to Non Final Office Action dated Sep. 4, 2018”, 18 pgs.
- “U.S. Appl. No. 15/224,355, Non Final Office Action dated Dec. 20, 2018”, 14 pgs.
- “U.S. Appl. No. 15/224,355, Response filed Sep. 24, 2018 to Final Office Action dated Apr. 24, 2018”, 19 pgs.
- “U.S. Appl. No. 15/224,365, Non Final Office Action dated Jan. 3, 2019”, 11 pgs.
- “U.S. Appl. No. 15/224,365, Resonse filed Oct. 2, 2018 to Final Office Action dated Apr. 2, 2018”, 15 pgs.
- “U.S. Appl. No. 15/224,372, Resonse filed Jan. 16, 2019 to Non Final Office Action dated Sep. 14, 2018”, 18 pgs.
- “U.S. Appl. No. 15/224,377, Examiner Interview Summary dated Mar. 4, 2019”, 5 pgs.
- “U.S. Appl. No. 15/224,377, Final Office Action dated Feb. 6, 2019”, 14 pgs.
- “U.S. Appl. No. 15/224,377, Response filed Dec. 17, 2018 to Non Final Office Action dated Jun. 15, 2018”, 13 pgs.
- “U.S. Appl. No. 15/224,383, Final Office Action dated Jan. 14, 2019”, 15 pgs.
- “U.S. Appl. No. 15/224,383, Response Filed Dec. 5, 2018 to Non Final Office Action dated Jul. 5, 2018”, 16 pgs.
- “U.S. Appl. No. 15/298,806, Notice of Allowance dated Sep. 19, 2018”, 5 pgs.
- “U.S. Appl. No. 15/702,511, Notice of Allowance dated Oct. 26, 2018”, 7 pgs.
- “U.S. Appl. No. 15/729,582, Final Office Action dated Dec. 13, 2018”, 14 pgs.
- “U.S. Appl. No. 15/787,467, Corrected Notice of Allowability dated Sep. 24, 2018”, 2 pgs.
- “U.S. Appl. No. 15/787,467, Notice of Allowance dated Aug. 31, 2018”, 8 pgs.
- “U.S. Appl. No. 15/946,990, Non Final Office Action dated Dec. 3, 2018”, 10 pgs.
- “U.S. Appl. No. 15/946,990, Response filed Feb. 20, 2019 to Non Final Office Action dated Dec. 3, 2018”, 11 pgs.
- “U.S. Appl. No. 16/204,886, Non Final Office Action dated Jan. 4, 2019”, 8 pgs.
- “Canadian Application Serial No. 2,910,158, Response filed Dec. 6, 2018 to Office Action dated Jun. 6, 2018”, w/ English Claims, 18 pgs.
- “European Application Serial No. 15782165.3, Communication Pursuant to Article 94(3) EPC dated Sep. 14, 2018”, 7 pgs.
- “European Application Serial No. 15782165.3, Response filed Jan. 24, 2019 to Communication Pursuant to Article 94(3) EPC dated Sep. 14, 2018”, w/ English Claims, 56 pgs.
- U.S. Appl. No. 15/947,350, filed Apr. 6, 2018, Automated Chronological Display of Ephemeral Message Gallery (as amended).
- U.S. Appl. No. 16/000,657, filed Jun. 5, 2018, Ephemeral Gallery of Ephemeral Messages With Opt-in Permanence.
- U.S. Appl. No. 15/946,990, filed Apr. 6, 2018, Message Destination List Mechanism (as amended).
- U.S. Appl. No. 16/219,577, filed Dec. 13, 2018, Geo-Location Based Event Gallery.
- U.S. Appl. No. 16/204,886, filed Nov. 29, 2018, Prioritization of Messages Within a Message Collection.
- “U.S. Appl. No. 14/634,417, Corrected Notice of Allowability dated Mar. 11, 2019”, 3 pgs.
- “U.S. Appl. No. 14/634,417, Corrected Notice of Allowability dated Mar. 20, 2019”, 3 pgs.
- “U.S. Appl. No. 14/967,472, Corrected Notice of Allowability dated Mar. 18, 2019”, 3 pgs.
- “U.S. Appl. No. 14/967,472, Corrected Notice of Allowability dated Apr. 24, 2019”, 3 pgs.
- “U.S. Appl. No. 15/074,029, Corrected Notice of Allowability dated Aug. 20, 2019”, 10 pgs.
- “U.S. Appl. No. 15/074,029, Notice of Allowance dated Jun. 19, 2019”, 14 pgs.
- “U.S. Appl. No. 15/074,029, Response filed Apr. 23, 2019 to Non Final Office Action dated Jan. 23, 2019”, 15 pgs.
- “U.S. Appl. No. 15/137,608, Final Office Action dated May 13, 2019”, 10 pgs.
- “U.S. Appl. No. 15/137,608, Notice of Allowance dated Aug. 8, 2019”, 7 pgs.
- “U.S. Appl. No. 15/137,608, Response filed Jul. 12, 2019 to Final Office Action dated May 13, 2019”, 10 pgs.
- “U.S. Appl. No. 15/152,975, Notice of Allowance dated May 17, 2019”, 13 pgs.
- “U.S. Appl. No. 15/224,312, Advisory Action dated Aug. 27, 2019”, 3 pgs.
- “U.S. Appl. No. 15/224,312, Final Office Action dated Apr. 11, 2019”, 15 pgs.
- “U.S. Appl. No. 15/224,312, Response filed Aug. 12, 2019 to Final Office Action dated Apr. 11, 2019”, 14 pgs.
- “U.S. Appl. No. 15/224,343, Final Office Action dated Mar. 22, 2019”, 17 pgs.
- “U.S. Appl. No. 15/224,343, Response filed Aug. 22, 2019 to Final Office Action dated Mar. 22, 2019”, 16 pgs.
- “U.S. Appl. No. 15/224,355, Final Office Action dated Aug. 9, 2019”, 15 pgs.
- “U.S. Appl. No. 15/224,355, Response filed May 20, 2019 to Non Final Office Action dated Dec. 20, 2018”, 13 pgs.
- “U.S. Appl. No. 15/224,365, Final Office Action dated Aug. 23, 2019”, 12 pgs.
- “U.S. Appl. No. 15/224,365, Response filed Jun. 3, 2019 to Non-Final Office Action dated Jan. 3, 2019”, 12 pgs.
- “U.S. Appl. No. 15/224,372, Final Office Action dated Mar. 6, 2019”, 17 pgs.
- “U.S. Appl. No. 15/224,372, Response filed Jul. 8, 2019 to Final Office Action dated Mar. 6, 2019”, 14 pgs.
- “U.S. Appl. No. 15/224,377, Response filed Jun. 6, 2019 to Final Office Action dated Feb. 6, 2019”, 10 pgs.
- “U.S. Appl. No. 15/224,383, Response filed May 14, 2019 to Final Office Action Jan. 14, 2019”, 15 pgs.
- “U.S. Appl. No. 15/702,511, 312 Amendment filed Jun. 26, 2019”, 11 pgs.
- “U.S. Appl. No. 15/702,511, Notice of Allowance dated Mar. 26, 2019”, 7 pgs.
- “U.S. Appl. No. 15/702,511, PTO Response to Rule 312 Communication dated Aug. 13, 2019”, 2 pgs.
- “U.S. Appl. No. 15/729,582, Notice of Allowance dated Jul. 22, 2019”, 9 pgs.
- “U.S. Appl. No. 15/729,582, Response filed May 13, 2019 to Final Office Action dated Dec. 13, 2018”, 9 pgs.
- “U.S. Appl. No. 15/946,990, Final Office Action dated May 9, 2019”, 11 pgs.
- “U.S. Appl. No. 15/946,990, Response filed Jul. 9, 2019 to Final Office Action dated May 9, 2019”, 12 pgs.
- “U.S. Appl. No. 16/204,886, Corrected Notice of Allowability dated Jul. 15, 2019”, 2 pgs.
- “U.S. Appl. No. 16/204,886, Corrected Notice of Allowability dated Aug. 6, 2019”, 2 pgs.
- “U.S. Appl. No. 16/204,886, Corrected Notice of Allowability dated Sep. 10, 2019”, 2 pgs.
- “Serial No. 16/204,886, Notice of Allowance dated May 15, 2019”, 9 pgs.
- “U.S. Appl. No. 16/204,886, Response filed Apr. 2, 2019 to Non-Final Office Action dated Jan. 4, 2019”, 8 pgs.
- “U.S. Appl. No. 16/219,577, Restriction Requirement dated Aug. 7, 2019”, 6 pgs.
- “U.S. Appl. No. 16/376,598, Non Final Office Action dated Jul. 25, 2019”, 7 pgs.
- “U.S. Appl. No. 16/511,834, Non Final Office Action dated Aug. 20, 2019”, 11 pgs.
- “U.S. Appl. No. 15/074,029, Corrected Notice of Allowability dated Feb. 5, 2020”, 4 pgs.
- “U.S. Appl. No. 15/137,608, Corrected Notice of Allowability dated Oct. 2, 2019”, 3 pgs.
- “U.S. Appl. No. 15/224,312, Non Final Office Action dated Dec. 16, 2019”, 14 pgs.

(56)

References Cited

OTHER PUBLICATIONS

- “U.S. Appl. No. 15/224,312, Response filed Oct. 11, 2019 to Advisory Action dated Aug. 27, 2019”, 17 pgs.
- “U.S. Appl. No. 15/224,343, Final Office Action dated Apr. 7, 2020”, 16 pgs.
- “U.S. Appl. No. 15/224,343, Non Final Office Action dated Nov. 12, 2019”, 16 pgs.
- “U.S. Appl. No. 15/224,343, Response filed Mar. 2, 2020 to Non Final Office Action dated Nov. 12, 2019”, 17 pgs.
- “U.S. Appl. No. 15/224,355, Non Final Office Action dated Jan. 22, 2020”, 13 pgs.
- “U.S. Appl. No. 15/224,355, Response filed Nov. 11, 2019 to Final Office Action dated Aug. 9, 2019”, 14 pgs.
- “U.S. Appl. No. 15/224,365, Non Final Office Action dated Mar. 13, 2020”, 9 pgs.
- “U.S. Appl. No. 15/224,365, Response filed Jan. 23, 2020 to Final Office Action dated Aug. 23, 2019”, 13 pgs.
- “U.S. Appl. No. 15/224,372, Non Final Office Action dated Oct. 16, 2019”, 14 pgs.
- “U.S. Appl. No. 15/224,377, Non Final Office Action dated Oct. 15, 2019”, 12 pgs.
- “Serial No. 15/224,383, Non-Final Office Action dated Sep. 23, 2019”, 13 pgs.
- “U.S. Appl. No. 15/224,383, Notice of Allowance dated Feb. 27, 2020”, 7 pgs.
- “U.S. Appl. No. 15/224,383, Response filed Jan. 23, 2020 to Non Final Office Action dated Sep. 23, 2019”, 14 pgs.
- “U.S. Appl. No. 15/702,511, Notice of Allowability dated Sep. 30, 2019”, 2 pgs.
- “U.S. Appl. No. 15/729,582, Corrected Notice of Allowability dated Oct. 2, 2019”, 3 pgs.
- “U.S. Appl. No. 15/729,582, Corrected Notice of Allowability dated Oct. 30, 2019”, 3 pgs.
- “U.S. Appl. No. 15/946,990, Notice of Allowance dated Sep. 24, 2019”, 5 pgs.
- “U.S. Appl. No. 15/947,350, Non Final Office Action dated Dec. 13, 2019”, 20 pgs.
- “U.S. Appl. No. 15/947,350, Response filed Apr. 13, 2020 to Non Final Office Action dated Dec. 13, 2019”, 12 pgs.
- “U.S. Appl. No. 16/000,657, Non Final Office Action dated Mar. 6, 2020”, 30 pgs.
- “U.S. Appl. No. 16/219,577, Non Final Office Action dated Oct. 29, 2019”, 7 pgs.
- “U.S. Appl. No. 16/219,577, Response filed Oct. 3, 2019 to Restriction Requirement dated Aug. 7, 2019”, 6 pgs.
- “U.S. Appl. No. 16/219,577, Response filed Dec. 5, 2019 to Non Final Office Action dated Oct. 29, 2019”, 6 pgs.
- “U.S. Appl. No. 16/376,598, Notice of Allowability dated Jan. 23, 2020”, 2 pgs.
- “U.S. Appl. No. 16/376,598, Notice of Allowance dated Oct. 18, 2019”, 5 pgs.
- “U.S. Appl. No. 16/376,598, Response filed Oct. 7, 2019 to Non-Final Office Action dated Jul. 25, 2019”, 2 pgs.
- “U.S. Appl. No. 16/511,834, Corrected Notice of Allowability dated Jan. 27, 2020”, 2 pgs.
- “U.S. Appl. No. 16/511,834, Notice of Allowance dated Oct. 23, 2019”, 8 pgs.
- “U.S. Appl. No. 16/511,834, Response filed Oct. 7, 2019 to Non-Final Office Action dated Aug. 20, 2019”, 3 pgs.
- “U.S. Appl. No. 16/541,919, Non Final Office Action dated Apr. 14, 2020”, 18 pgs.
- “U.S. Appl. No. 16/662,956, Preliminary Amendment filed Oct. 24, 2019”, 8 pgs.
- “U.S. Appl. No. 16/709,092, Notice of Allowance dated Apr. 9, 2020”, 9 pgs.
- “Canadian Application Serial No. 3,027,981, Office Action dated Dec. 5, 2019”, 4 pgs.
- “Canadian Application Serial No. 3,027,981, Response filed Mar. 31, 2020 to Office Action dated Dec. 5, 2019”, 12 pgs.
- “European Application Serial No. 15782165.3, Decision to Refuse a European Patent Application dated Mar. 19, 2020”, 23 pgs.
- “European Application Serial No. 15782165.3, Response filed Jan. 10, 2020 to Summons to Attend Oral Proceedings mailed Sep. 18, 2019”, 18 pgs.
- “European Application Serial No. 15782165.3, Summons to Attend Oral Proceedings mailed Sep. 18, 2019”, 6 pgs.
- “Surprise!”, [Online] Retrieved from the Internet: <URL: <https://www.snap.com/en-US/news/post/surprise>>, (Oct. 3, 2013), 1 pg.
- Buscemi, Scott, “Snapchat introduces ‘Stories’, a narrative built with snaps”, [Online] Retrieved from the Internet: <URL: <https://9to5mac.com/2013/10/03/snapchat-introduces-stories-a-narrative-built-with-snaps/>>, (Oct. 3, 2013), 2 pgs.
- Etherington, Darrell, “Snapchat Gets Its Own Timeline With Snapchat Stories, 24-Hour Photo & Video Tales”, [Online] Retrieved from the Internet: <URL: <https://techcrunch.com/2013/10/03/snapchat-gets-its-own-timeline-with-snapchat-stories-24-hour-photo-video-tales/>>, (Oct. 3, 2013), 2 pgs.
- Hamburger, Ellis, “Snapchat’s next big thing: ‘Stories’ that don’t just disappear”, [Online] Retrieved from the Internet: <URL: <https://www.theverge.com/2013/10/3/4791934/snapchats-next-big-thing-stories-that-dont-just-disappear>>, (Oct. 3, 2013), 5 pgs.
- Rossignol, Joe, “How to screenshot Snapchat without sending notification”, [Online] Retrieved from the Internet: <URL: <https://www.idownloadblog.com/author/joerossignol/>>, (May 3, 2014), 16 pgs.
- Wagner, Kurt, “Snapchat Rolls Out Group-Sharing Feature for Concerts, Live Events”, Mashable, [Online] Retrieved from the Internet on Sep. 12, 2019: <URL: <https://mashable.com/2014/06/17/snapchat-our-story/?europe=true>>, (Jun. 17, 2014), 16 pgs.
- “U.S. Appl. No. 15/224,312, Response filed Oct. 1, 2020 to Final Office Action dated May 1, 2020”, 18 pgs.
- “U.S. Appl. No. 15/224,365, Response filed Oct. 2, 2020 to Final Office Action dated Jul. 2, 2020”, 13 pgs.
- “U.S. Appl. No. 15/224,372, Response filed Oct. 5, 2020 to Final Office Action dated May 4, 2020”, 17 pgs.
- “U.S. Appl. No. 16/662,956, Non Final Office Action dated Oct. 6, 2020”, 13 pgs.
- “U.S. Appl. No. 14/578,271, Corrected Notice of Allowance dated Oct. 30, 2017”, 2 pgs.
- “U.S. Appl. No. 14/578,271, Notice of Allowance dated Aug. 1, 2017”, 5 pgs.
- “U.S. Appl. No. 14/612,692, Final Office Action dated Aug. 25, 2017”, 18 pgs.
- “U.S. Appl. No. 14/634,417, Examiner Interview Summary dated Aug. 7, 2017”, 3 pgs.
- “U.S. Appl. No. 14/634,417, Notice of Allowance dated Oct. 25, 2017”, 9 pgs.
- “U.S. Appl. No. 14/634,417, Response filed Sep. 21, 2017 to Non Final Office Action dated Jun. 8, 2017”, 16 pgs.
- “U.S. Appl. No. 15/152,975, Final Office Action dated Jun. 30, 2017”, 17 pgs.
- “U.S. Appl. No. 15/224,312, Non Final Office Action dated Oct. 11, 2017”, 29 pgs.
- “U.S. Appl. No. 15/224,343, Non Final Office Action dated Oct. 4, 2017”, 26 pgs.
- “U.S. Appl. No. 15/224,355, Examiner Interview Summary dated Oct. 25, 2017”, 3 pgs.
- “U.S. Appl. No. 15/224,355, Non Final Office Action dated Sep. 6, 2017”, 30 pgs.
- “U.S. Appl. No. 15/224,365, Non Final Office Action dated Aug. 8, 2017”, 41 pgs.
- “U.S. Appl. No. 15/224,372, Non Final Office Action dated Aug. 7, 2017”, 40 pgs.
- “U.S. Appl. No. 15/224,377, Non Final Office Action dated Aug. 4, 2017”, 41 pgs.
- “U.S. Appl. No. 15/224,383, Examiner Interview Summary dated Oct. 25, 2017”, 3 pgs.
- “U.S. Appl. No. 15/224,383, Non Final Office Action dated Aug. 30, 2017”, 26 pgs.
- “U.S. Appl. No. 15/298,806, Final Office Action dated Oct. 24, 2017”, 15 pgs.

(56)

References Cited

OTHER PUBLICATIONS

“U.S. Appl. No. 15/298,806, Response filed Sep. 12, 2017 to Non Final Office Action dated Jun. 12, 2017”, 12 pgs.
 “U.S. Appl. No. 15/416,846, Notice of Allowance dated Jul. 19, 2017”, 9 pgs.
 “U.S. Appl. No. 15/702,511, Preliminary Amendment filed Sep. 15, 2017”, 13 pgs.
 “U.S. Appl. No. 15/787,467, Preliminary Amendment filed Oct. 26, 2017”, 11 pgs.
 “European Application Serial No. 15782165.3, Response filed Oct. 17, 2017 to Communication pursuant to Rules 161(1) and 162 EPC dated May 10, 2017”, 15 pgs.
 “International Application Serial No. PCT/US2015/065785, International Preliminary Report on Patentability dated Jun. 29, 2017”, 7 pgs.
 “International Application Serial No. PCT/US2015/065821, International Preliminary Report on Patentability dated Jun. 29, 2017”, 5 pgs.
 “International Application Serial No. PCT/US2016/023085, International Preliminary Report on Patentability dated Sep. 28, 2017”, 8 pgs.
 “U.S. Appl. No. 15/224,312, Final Office Action dated May 1, 2020”, 18 pgs.
 “U.S. Appl. No. 15/224,312, Response filed Apr. 16, 2020 to Non Final Office Action dated Dec. 16, 2019”, 14 pgs.
 “U.S. Appl. No. 15/224,343, Notice of Allowance dated Jul. 29, 2020”, 7 pgs.
 “U.S. Appl. No. 15/224,343, Response filed Jun. 3, 2020 to Final Office Action dated Apr. 7, 2020”, 12 pgs.
 “U.S. Appl. No. 15/224,355, Final Office Action dated May 1, 2020”, 15 pgs.
 “U.S. Appl. No. 15/224,355, Response filed Apr. 22, 2020 to Non Final Office Action dated Jan. 22, 2020”, 13 pgs.
 “U.S. Appl. No. 15/224,355, Response filed Sep. 1, 2020 to Final Office Action dated May 1, 2020”, 16 pgs.
 “U.S. Appl. No. 15/224,365, Final Office Action dated Jul. 2, 2020”, 11 pgs.
 “U.S. Appl. No. 15/224,365, Response filed Jun. 15, 2020 to Non Final Office Action dated Mar. 13, 2020”, 12 pgs.
 “U.S. Appl. No. 15/224,372, Final Office Action dated May 4, 2020”, 15 pgs.
 “U.S. Appl. No. 15/224,372, Response filed Apr. 10, 2020 to Non Final Office Action dated Oct. 16, 2019”, 14 pgs.
 “U.S. Appl. No. 15/224,377, Final Office Action dated May 5, 2020”, 15 pgs.
 “U.S. Appl. No. 15/224,377, Response filed Apr. 15, 2020 to Non Final Office Action dated Oct. 15, 2019”, 13 pgs.
 “U.S. Appl. No. 15/224,377, Response filed Sep. 8, 2020 to Final Office Action dated May 5, 2020”, 15 pgs.
 “U.S. Appl. No. 15/947,350, Examiner Interview Summary dated Jul. 20, 2020”, 4 pgs.
 “U.S. Appl. No. 15/947,350, Final Office Action dated May 4, 2020”, 12 pgs.
 “U.S. Appl. No. 15/947,350, Non Final Office Action dated Sep. 28, 2020”, 13 pgs.
 “U.S. Appl. No. 15/947,350, Response filed Sep. 4, 2020 to Final Office Action dated May 4, 2020”, 12 pgs.
 “U.S. Appl. No. 16/000,657, Examiner Interview Summary dated Jun. 12, 2020”, 4 pgs.

“U.S. Appl. No. 16/000,657, Examiner Interview Summary dated Sep. 25, 2020”, 3 pgs.
 “U.S. Appl. No. 16/000,657, Final Office Action dated Jul. 27, 2020”, 17 pgs.
 “U.S. Appl. No. 16/000,657, Response filed Jul. 6, 2020 to Non Final Office Action dated Mar. 6, 2020”, 13 pgs.
 “U.S. Appl. No. 16/000,657, Response filed Sep. 28, 2020 to Final Office Action dated Jul. 27, 2020”, 12 pgs.
 “U.S. Appl. No. 16/529,461, Non Final Office Action dated May 21, 2020”, 19 pgs.
 “U.S. Appl. No. 16/529,461, Response filed Jul. 29, 2020 to Non Final Office Action dated May 21, 2020”, 11 pgs.
 “U.S. Appl. No. 16/541,919, Notice of Allowance dated Jun. 30, 2020”, 8 pgs.
 “U.S. Appl. No. 16/541,919, Response filed Jun. 12, 2020 to Non Final Office Action dated Apr. 14, 2020”, 8 pgs.
 “U.S. Appl. No. 16/667,814, Non Final Office Action dated Aug. 17, 2020”, 6 pgs.
 “U.S. Appl. No. 16/667,814, Preliminary Amendment filed Apr. 20, 2020”, 6 pgs.
 “U.S. Appl. No. 16/703,526, Corrected Notice of Allowability dated Sep. 2, 2020”, 2 pgs.
 “U.S. Appl. No. 16/703,526, Notice of Allowance dated Jun. 19, 2020”, 10 pgs.
 “U.S. Appl. No. 16/703,526, Supplemental Notice of Allowability dated Aug. 10, 2020”, 2 pgs.
 “U.S. Appl. No. 16/709,092, Corrected Notice of Allowability dated Jun. 1, 2020”, 2 pgs.
 “U.S. Appl. No. 16/709,092, Corrected Notice of Allowability dated Jul. 22, 2020”, 2 pgs.
 “Canadian Application Serial No. 2,962,822, Office Action dated Jul. 20, 2020”, 5 pgs.
 “Chinese Application Serial No. 201580065266.7, Office Action dated Mar. 19, 2020”, w/English translation, 15 pgs.
 “Chinese Application Serial No. 201580065266.7, Response filed Jul. 16, 2020 Office Action dated Mar. 19, 2020”, w/ English Claims, 11 pgs.
 “Korean Application Serial No. 10-2017-7012120, Notice of Preliminary Rejection dated Jun. 17, 2020”, w/ English Translation, 8 pgs.
 “Korean Application Serial No. 10-2017-7012120, Response filed Sep. 3, 2020 to Notice of Preliminary Rejection dated Jun. 17, 2020”, w/ English Claims, 22 pgs.
 U.S. Appl. No. 17/035,575, filed Sep. 28, 2020, Geo-Fence Authorization Provisioning.
 U.S. Appl. No. 16/933,205, filed Jul. 20, 2020, Ephemeral Message Collection UI Indicia.
 U.S. Appl. No. 16/933,279, filed Jul. 20, 2020, Display Duration Assignment for Ephemeral Messages.
 U.S. Appl. No. 16/933,366, filed Jul. 20, 2020, Automated Management of Ephemeral Message Collections.
 U.S. Appl. No. 17/023,175, filed Sep. 16, 2020, Routing Messages by Message Parameter.
 U.S. Appl. No. 16/911,854, filed Jun. 25, 2020, Prioritization of Messages Within a Message Collection.
 U.S. Appl. No. 15/702,511, filed Sep. 12, 2017, Ephemeral Gallery of Ephemeral Messages.
 U.S. Appl. No. 15/787,467, filed Oct. 18, 2017, Prioritization of Messages Within a Message Collection.

* cited by examiner

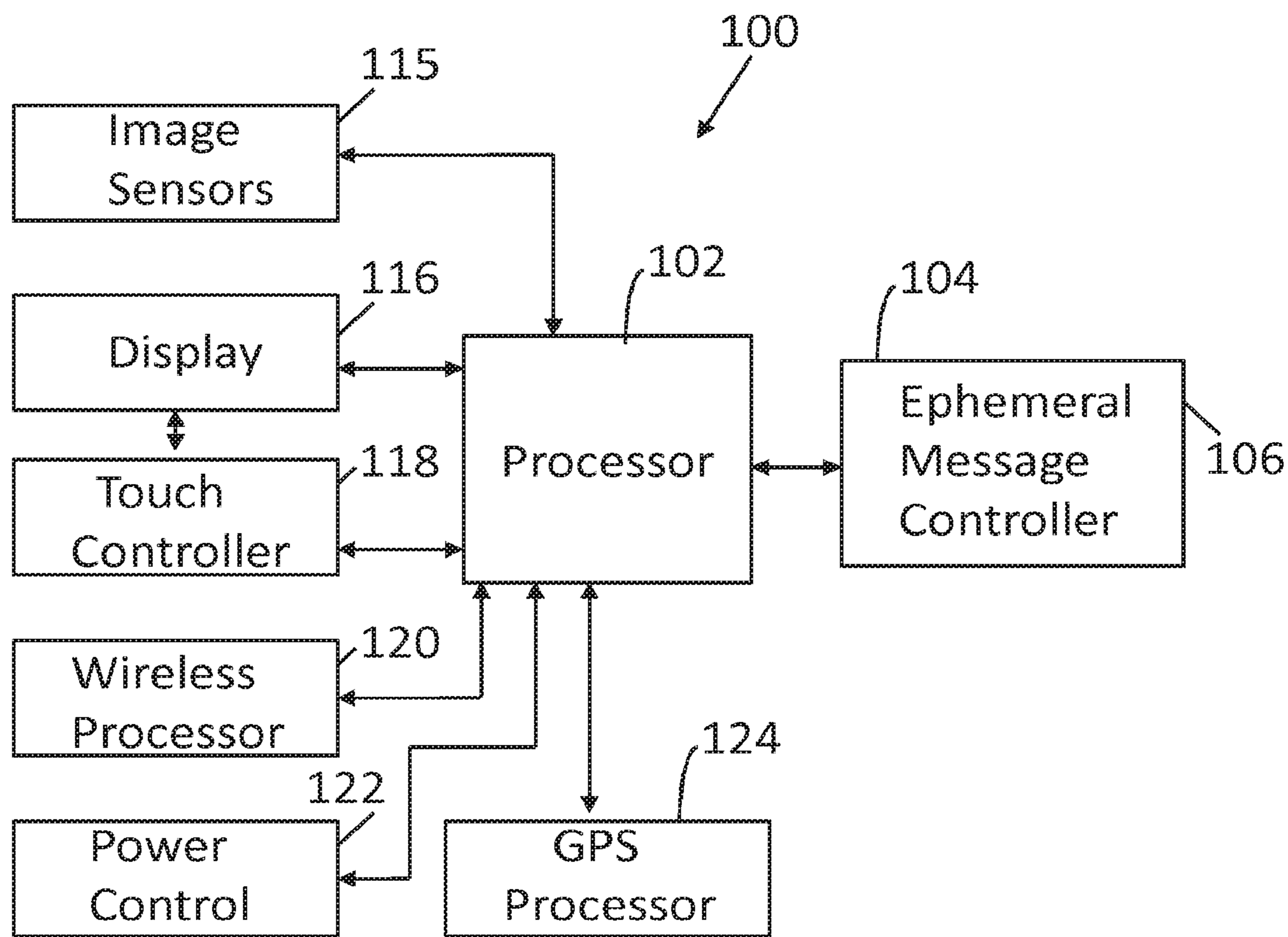


FIG. 1

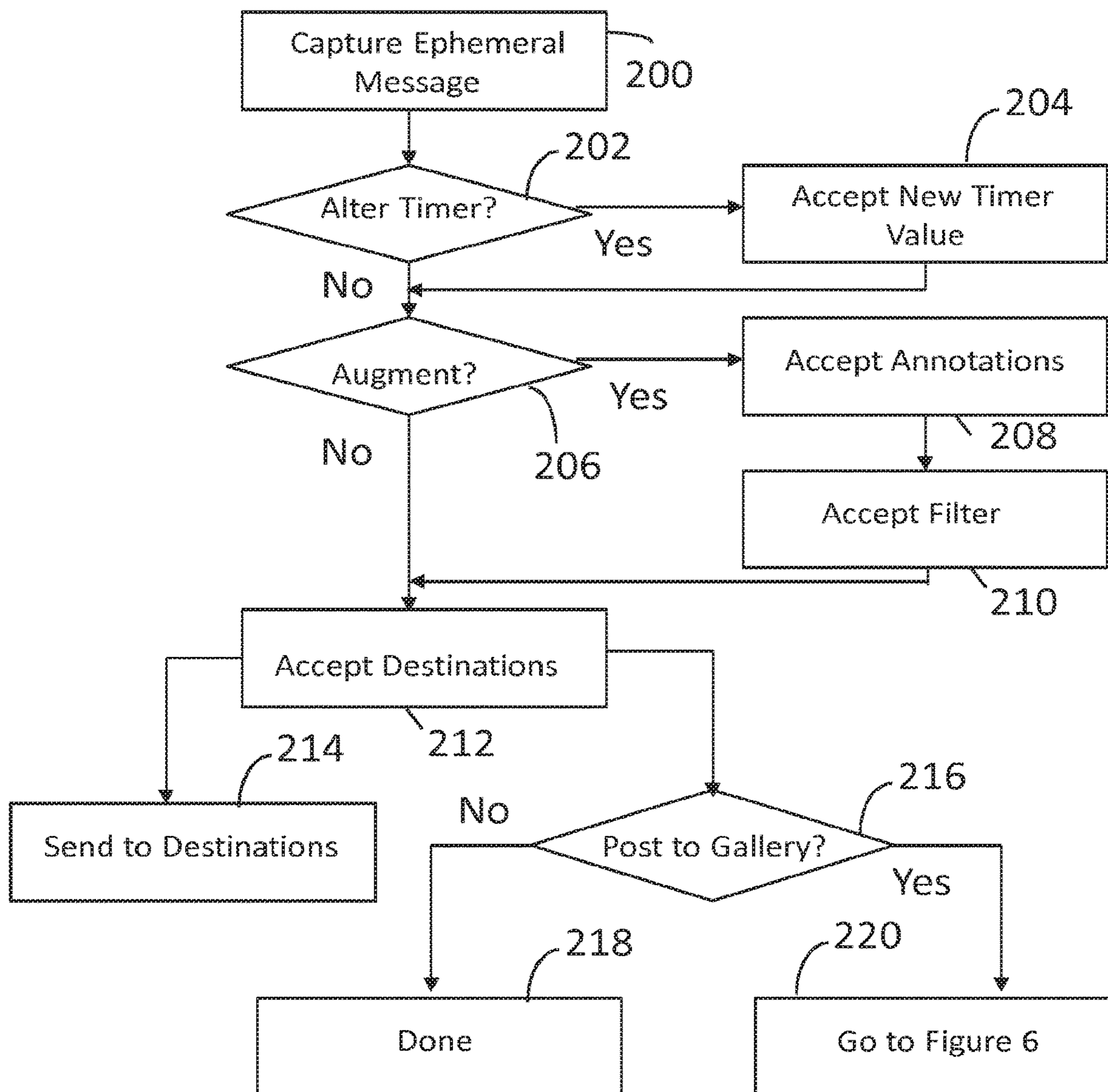


FIG. 2

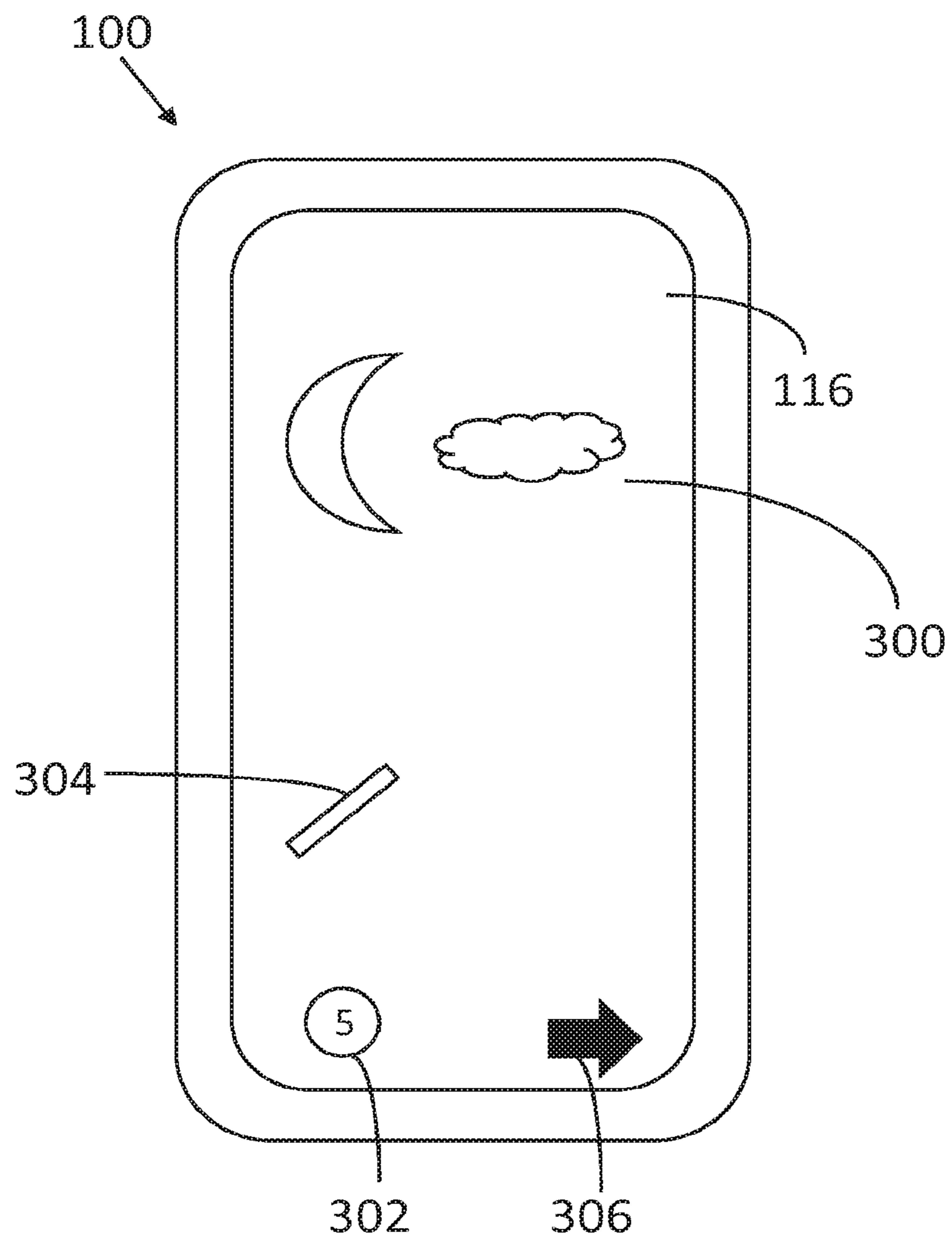


FIG. 3

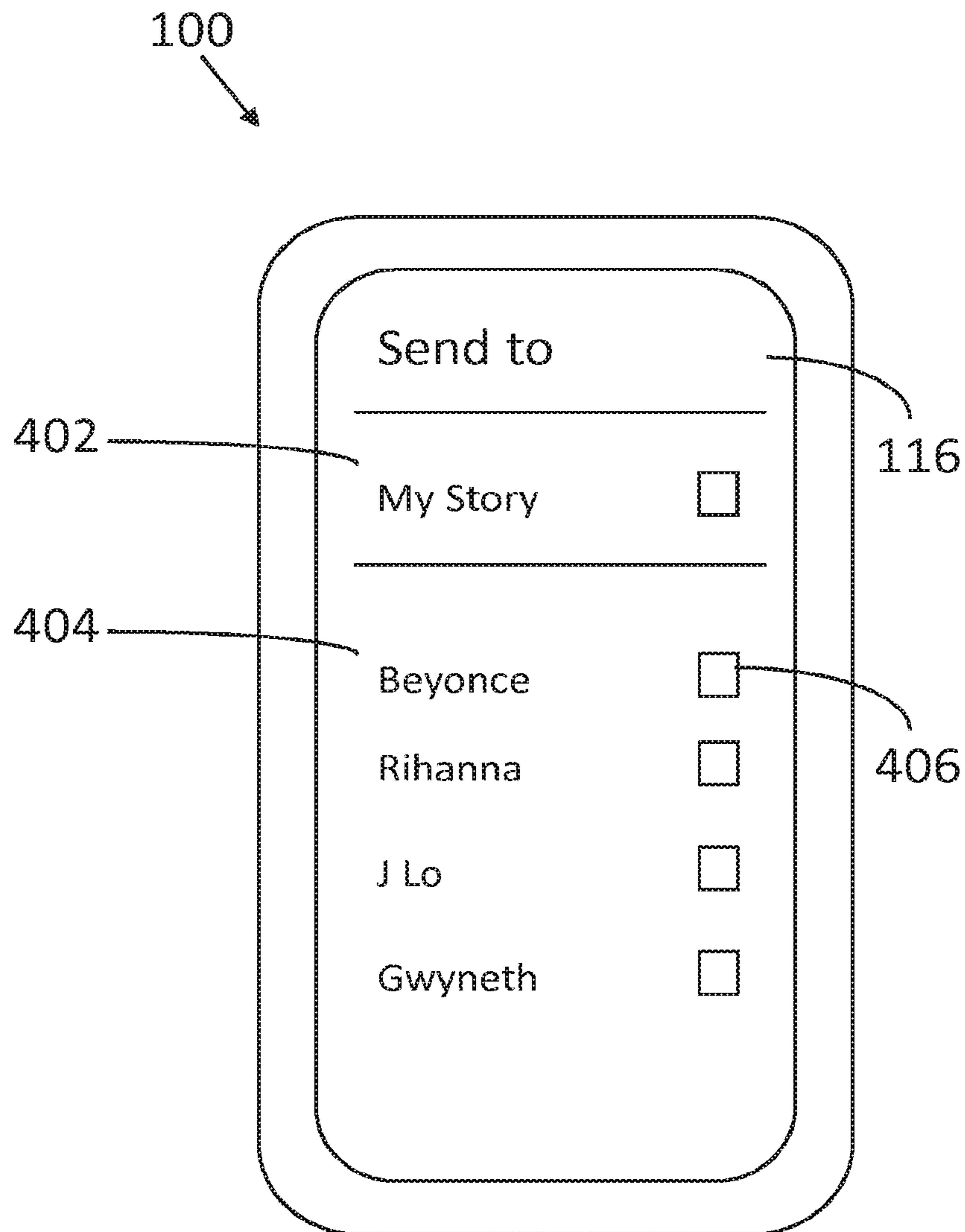


FIG. 4

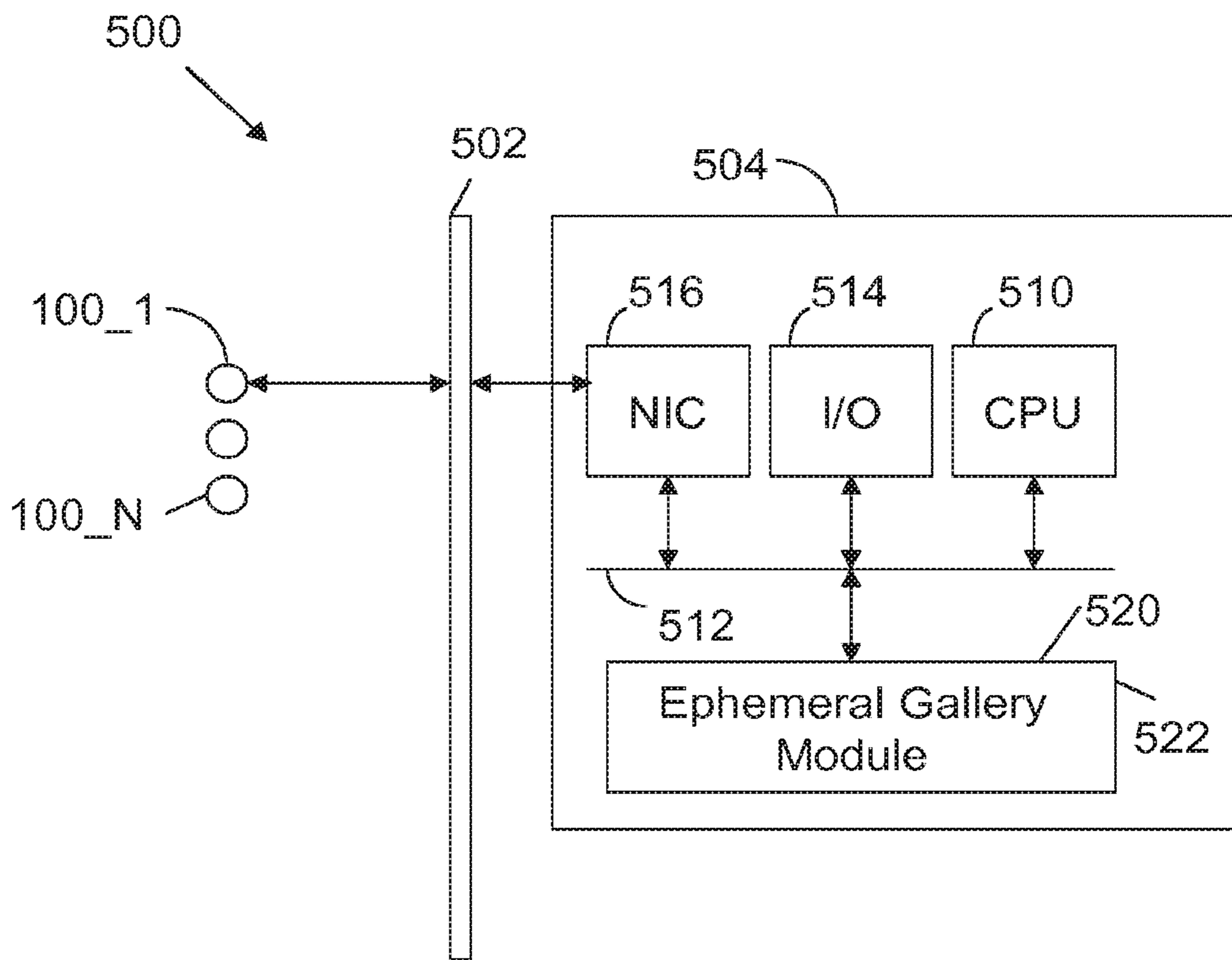


FIG. 5

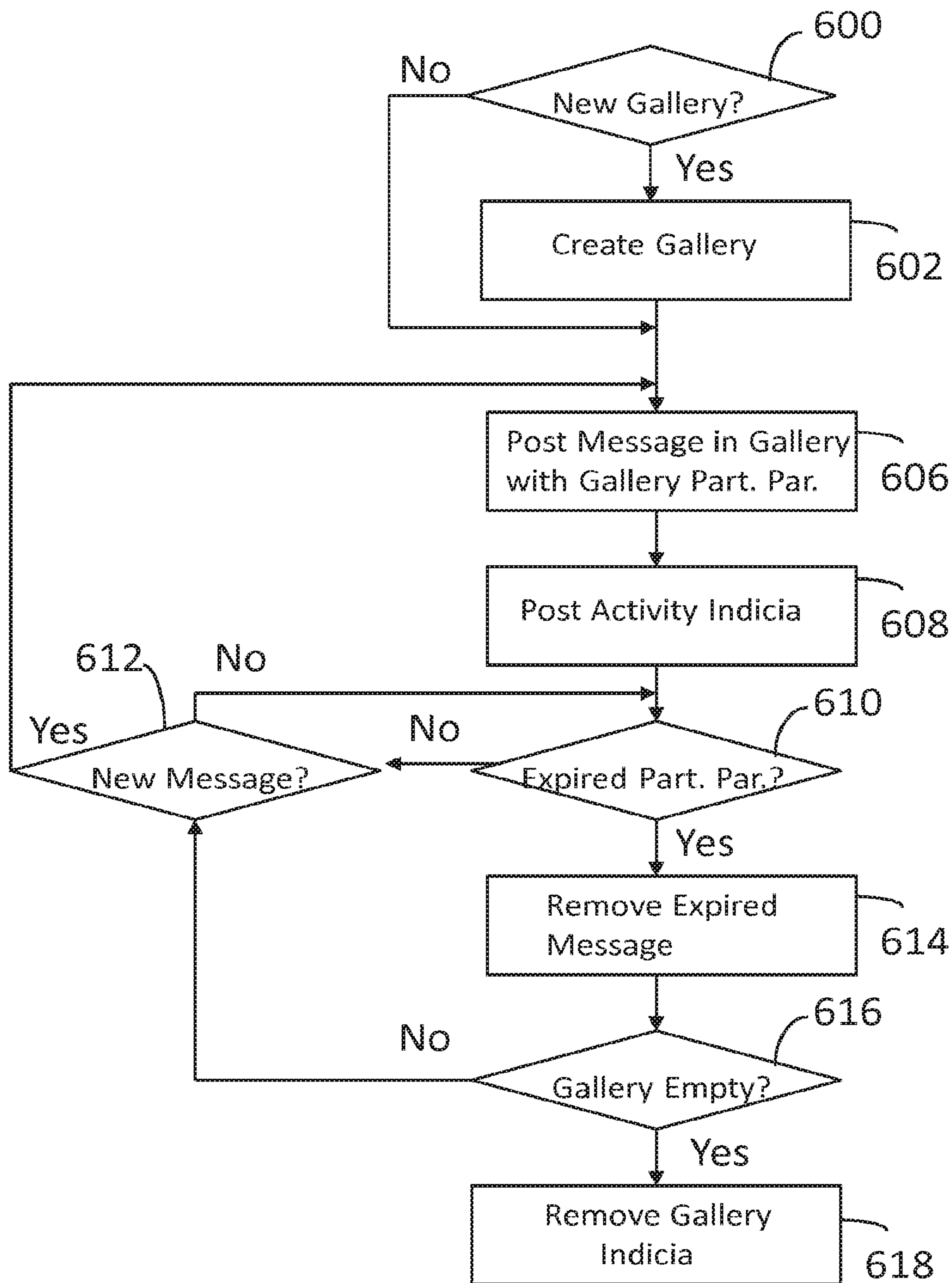


FIG. 6

Message_1	10 Seconds	120 Minutes Left
Message_2	5 Seconds	360 Minutes Left
Message_3	5 Seconds	1200 Minutes Left
Message_4	10 Seconds	1320 Minutes Left

FIG. 7

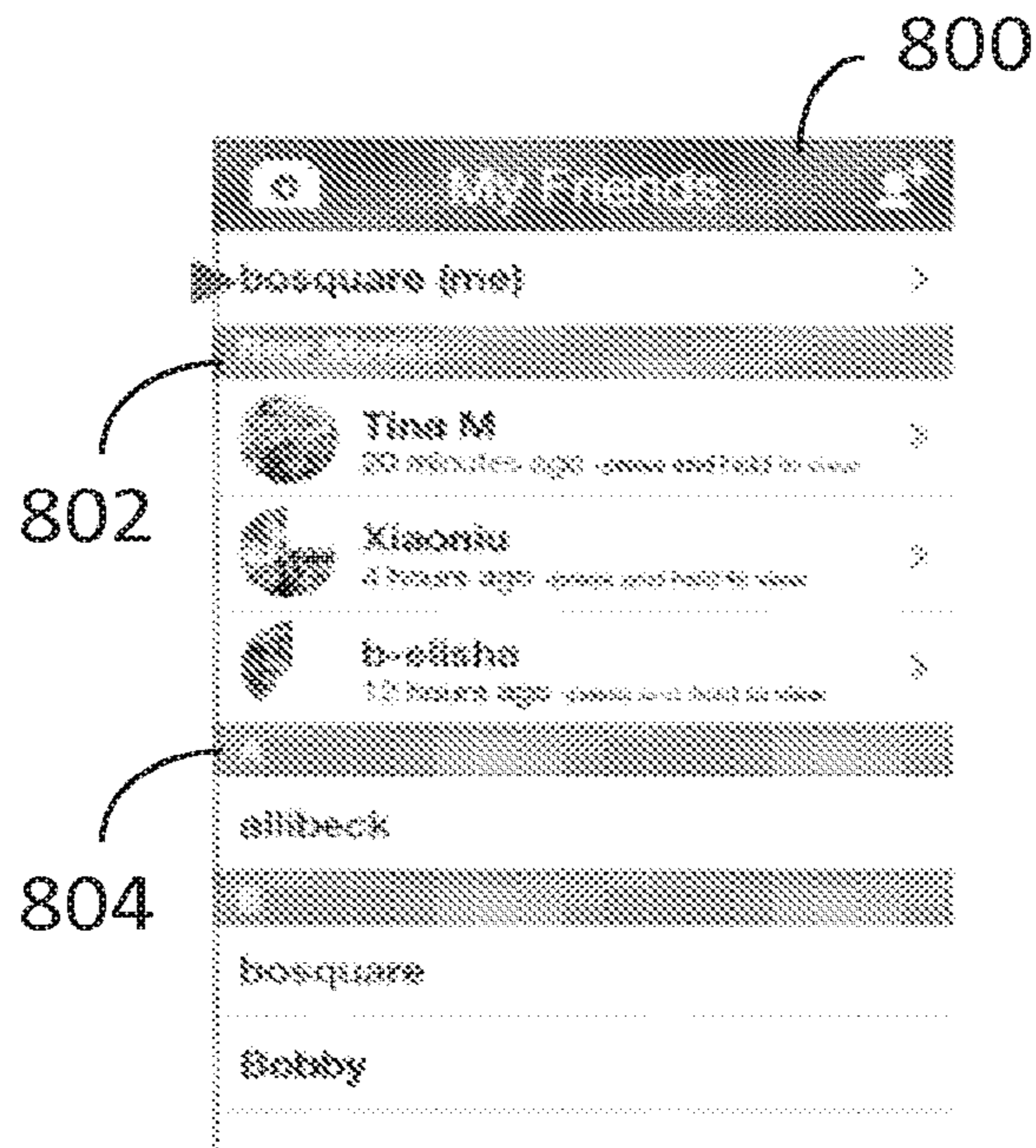


FIG. 8

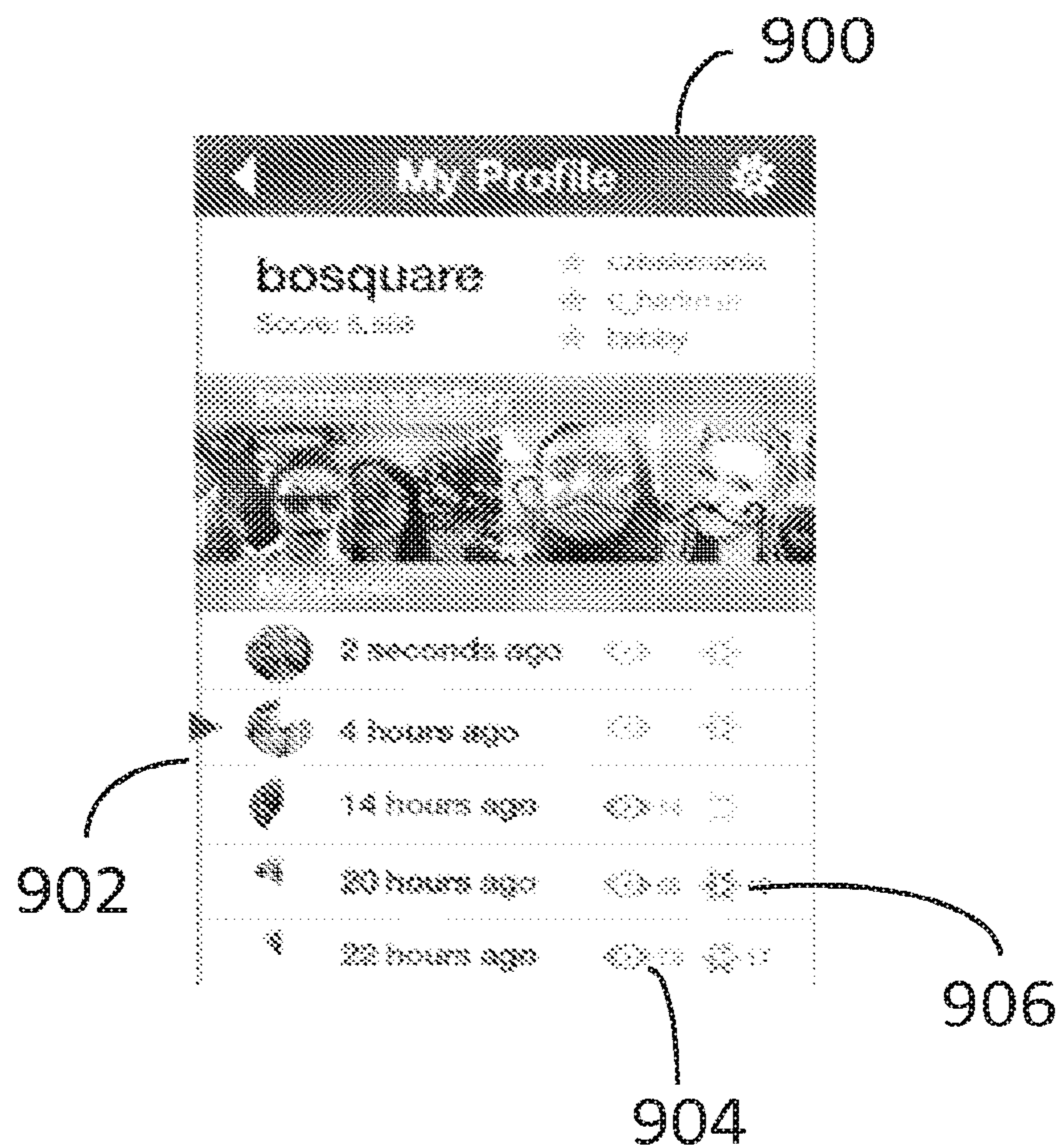


FIG. 9

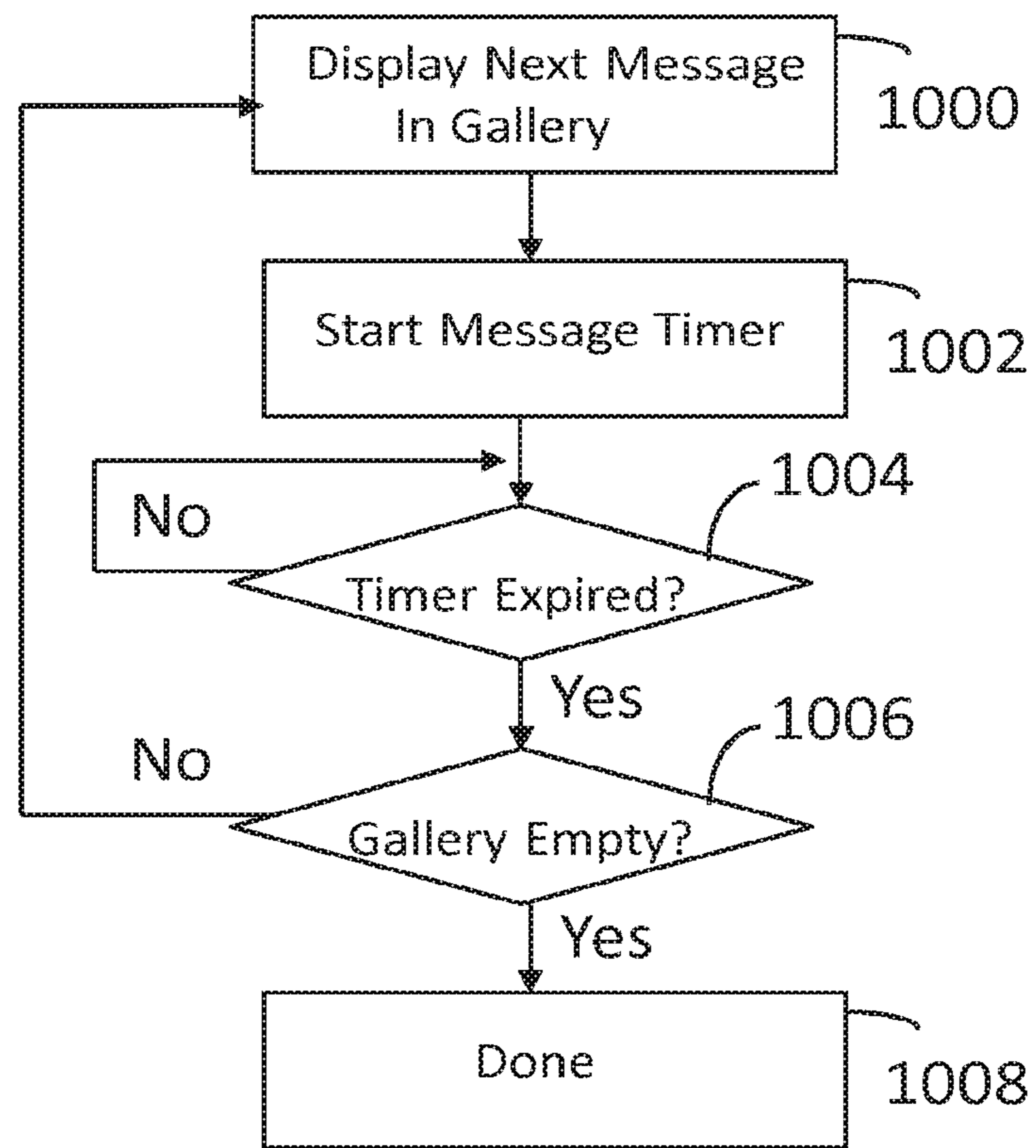


FIG. 10

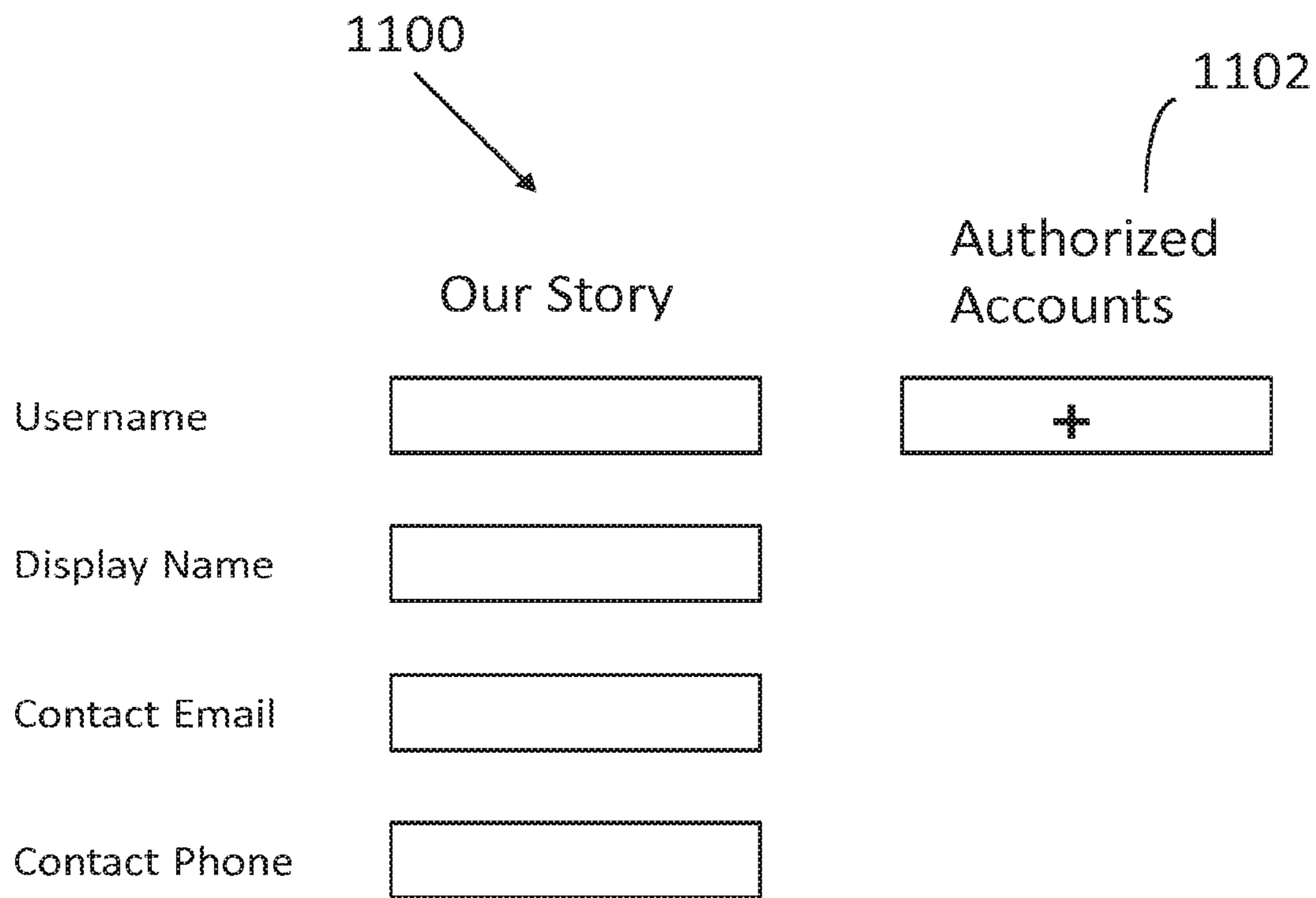


FIG. 11

1

EPHEMERAL GALLERY USER INTERFACE WITH REMAINING GALLERY TIME INDICATION

CLAIM OF PRIORITY

This application is a continuation and claims the benefit of priority of U.S. patent application Ser. No. 14/505,478, filed Oct. 2, 2014, which is hereby incorporated by reference herein in its entirety.

FIELD OF THE INVENTION

This invention relates generally to the display of computer network delivered ephemeral messages. More particularly, this invention relates to an ephemeral gallery of ephemeral messages.

BACKGROUND OF THE INVENTION

Messages (e.g., text, photo or video) delivered over computer networks are well known. However, one problem associated with such messages is that they require an affirmative act on the part of a user to delete or remove messages from their devices once the messages have been viewed or read. As a result, in some instances, users refrain from spontaneously sending many messages for fear of filling or cluttering a recipient's in-box.

In view of the foregoing, it would be desirable to maintain spontaneity and expand communicative content of messaging activity, while reducing the device management burdens imposed upon a message recipient.

SUMMARY OF THE INVENTION

A server has a processor and a memory storing instructions executed by the processor to maintain an ephemeral gallery of ephemeral messages. An ephemeral message is posted to the ephemeral gallery. The ephemeral message has an associated message duration parameter and a gallery participation parameter. An ephemeral message is removed from the ephemeral gallery in response to the identification of an expired gallery participation parameter.

BRIEF DESCRIPTION OF THE FIGURES

The invention is more fully appreciated in connection with the following detailed description taken in conjunction with the accompanying drawings, in which:

FIG. 1 illustrates components of an electronic device utilized in accordance with the invention.

FIG. 2 illustrates processing operations associated with an embodiment of the invention.

FIG. 3 illustrates an electronic device for capturing and augmenting an ephemeral message.

FIG. 4 illustrates an ephemeral message destination routing interface that may be used in accordance with an embodiment of the invention.

FIG. 5 illustrates a system to implement an embodiment of the invention.

FIG. 6 illustrates ephemeral gallery processing operations associated with an embodiment of the invention.

FIG. 7 illustrates an ephemeral gallery data structure associated with an embodiment of the invention.

FIG. 8 illustrates ephemeral gallery indicia associated with an embodiment of the invention.

2

FIG. 9 illustrates ephemeral gallery indicia associated with another embodiment of the invention.

FIG. 10 illustrates operations performed in response to an ephemeral gallery view request.

FIG. 11 illustrates an account administration interface to establish an ephemeral gallery that receives ephemeral messages from multiple users.

Like reference numerals refer to corresponding parts throughout the several views of the drawings.

DETAILED DESCRIPTION OF THE INVENTION

FIG. 1 illustrates an electronic device **100**. In one embodiment, the electronic device **100** is a smartphone with a processor **102** in communication with a memory **104**. The processor **102** may be a central processing unit and/or a graphics processing unit. The memory **104** is a combination of flash memory and random access memory. The memory **104** stores an ephemeral message controller **106** to implement operations of the invention. The ephemeral message controller **106** may include executable instructions to access a server which coordinates operations disclosed herein. Alternately, the ephemeral message controller **106** may include executable instructions to coordinate some of the operations disclosed herein, while the server implements other operations.

An ephemeral message may be a text, an image, a video and the like. The display time for the ephemeral message is typically set by the message sender. However, the display time maybe a default setting or a setting specified by the recipient. Regardless of the setting technique, the message is transitory (i.e., the message is deleted or otherwise made inaccessible after a certain period of time or after a certain action has been taken).

The processor **102** is also coupled to image sensors **115**. The image sensors **115** may be known digital image sensors, such as charge coupled devices. The image sensors capture visual media, which is presented on display **116**.

A touch controller **118** is connected to the display **116** and the processor **102**. The touch controller **118** is responsive to haptic signals applied to the display **116**. In one embodiment, the ephemeral message controller **106** monitors signals from the touch controller **118**. If haptic contact is observed by the touch controller **118** in connection with indicia of an ephemeral gallery, then the ephemeral gallery is displayed to the user as a sequence of ephemeral messages.

The electronic device **100** may also include other components commonly associated with a smartphone, such as a wireless signal processor **120** to provide connectivity to a wireless network. A power control circuit **122** and a global positioning system processor **124** may also be utilized. While many of the components of FIG. 1 are known in the art, new functionality is achieved through the ephemeral message controller **106** operating in conjunction with a server.

FIG. 2 illustrates processing operations associated with the ephemeral message controller **106**. Initially, an ephemeral message is captured **200**. FIG. 3 illustrates electronic device **100** and touch display **116** with a photograph **300** operative as an ephemeral message.

The next processing operation of FIG. 2 is to determine whether to alter a timer or a message duration parameter **202**. FIG. 3 illustrates an example of indicia **302** of a message duration parameter. In this example, the indicia indicates a default of 5 seconds as the message duration

parameter. If the indicia is engaged (e.g., through haptic contact), then a prompt may be supplied for a new message duration parameter (e.g., 10 seconds). Such activity (202—Yes) results in the acceptance of the new timer value 204. If a new timer value is specified or no alteration of a timer transpires (202—No) control proceeds to block 206. The user may be prompted to augment the ephemeral message. As shown in FIG. 3, a drawing tool 304 may be supplied to allow a user to add a hand drawn message. The drawing tool 304 may be manipulated by haptic contact to enter a message or annotation of visual media. Alternately or in addition, a keyboard may be used to type augment a message. For example, a tap on the touch display 116 may result in a keyboard being displayed, which allows a user to enter a typed message.

As shown in FIG. 2, annotations may be accepted 208 in this manner. Augmentation may also be in the form of photograph filters. That is, photograph filters may be accepted 210. For example, a first right-to-left swipe motion on the touch display 116 may drag a first filter on top of the photograph. A second right-to-left swipe motion on the touch display 116 may drag a second filter on top of the photograph. Filter processing of this type is described in commonly owned U.S. Ser. No. 14/325,270, filed Jul. 7, 2014, the contents of which are incorporated herein by reference.

The next operation of FIG. 2 is to accept destinations 212. As more fully described below, a destination may be used to identify intended recipients of a message or a location or “gallery” where one or more messages may be accessed. FIG. 3 illustrates an icon 306 to invoke a destination list. Haptic contact on the icon may result in a destination list of the type shown in FIG. 4. FIG. 4 illustrates an electronic device 100 displaying a destination list. The destination list may include a destination of “My Story” 402, where “My Story” is a reference to an ephemeral gallery of ephemeral messages. The destination list may also include a friends or contacts section 404 listing various friends that may be ephemeral message recipients. Haptic contact with a box 406 associated with a listed individual or story places the corresponding individual or story on a destination list.

Returning to FIG. 2, after the destination list is specified, the ephemeral message is sent to the specified destinations 214. For example, the ephemeral message is sent to friends selected from section 404, if any. A check is also made to determine whether the message should be posted to an ephemeral gallery 216. If not (216—No), processing is completed. If so (216—Yes), the processing of FIG. 6 is performed 220. Thus, it is possible to send a message to one or more friends and/or post to an ephemeral gallery.

FIG. 5 illustrates a system 500. The figure presents a simplified representation of a set of electronic devices 100_1 through 100_N, where each electronic device may be configured as the device of FIG. 1. Each electronic device is in communication with a network 502, which may be any combination of wireless and wired networks.

A server 504 is also connected to the network 502. The server 504 includes standard components, such as a central processing unit 510 connected to input/output devices 514 via a network 512. The input/output devices 514 may include a keyboard, mouse, display and the like. A network interface circuit 516 is also connected to the bus 512 to provide connectivity to network 502. A memory 520 is also connected to the bus 512. The memory 520 stores an ephemeral gallery module 522. The ephemeral gallery module 522 stores instructions executed by the central processing unit 510 to implement operations of the invention. For

example, the ephemeral gallery module 522 may include instructions to coordinate the processing operations of FIG. 2. These operations may be controlled by the ephemeral gallery module 522 or they may be performed in conjunction with selective operations performed by the ephemeral message controller 106.

FIG. 6 illustrates ephemeral gallery module 522 operations performed in accordance with an embodiment of the invention. The first operation of FIG. 6 is to determine whether a new gallery is needed 600. As discussed in connection with FIG. 4, designating “My Story” 402 as a message recipient results in a post of an ephemeral message to an ephemeral gallery. If a gallery does not exist (600—Yes), then a new gallery is created 602. Alternately, if a gallery does exist and a user wants to create a new gallery, then the new gallery is created 602. The user may be supplied a prompt to indicate whether an existing gallery should be used or a new gallery should be designated.

The message is then posted in the gallery with a gallery participation parameter 606. The gallery participation parameter is an ephemeral period of time that the ephemeral message will continue to exist in the gallery. For example, a first ephemeral message posted to the gallery may have a default gallery participation parameter of 24 hours. In other instances, the gallery participation parameter may be set by a user. The gallery participation parameter value decreases with the passage of time. Thus, in this embodiment, an ephemeral message gallery subsists for as long as the gallery participation parameter of the last message posed to the gallery.

In another embodiment, a gallery timer may be assigned to a gallery by a user. The gallery timer may be used to establish a lifespan of an associated gallery and messages posted to this gallery subsist for no longer than the life of the gallery. Thus, in some embodiments, all messages posted to such a gallery will subsist for the duration of the life of the gallery (regardless of posting time). In other embodiments, messages may be submitted with a gallery participation parameter. In these embodiments, messages expire and become inaccessible at the earlier of the gallery participation parameter or the remaining life of the gallery.

The next processing operation of FIG. 6 is to post activity indicia 608. Examples of activity indicia are provided below. A check is then made to determine whether there is an expired participation parameter 610. If so (610—Yes), the ephemeral message associated with the expired participation parameter is removed from the ephemeral gallery 614. If as a result of this removed message the gallery is empty (616—Yes), then the ephemeral gallery terminates and indicia of the gallery is removed 618. If the gallery is not empty (616—No), a check is made for a new message 612. If a new message exists (612—Yes), then processing returns to block 604. If a new message does not exist (612—No), then processing returns to block 610. If an expired participation parameter does not exist (610—No), then a check is made once again for a new message 612.

FIG. 7 illustrates a data structure for an ephemeral message gallery. A first column 700 may have a list of messages. Another column 702 may have a list of message duration parameters for individual messages. Another column 704 may have a list of gallery participation parameters for individual messages. Observe in this example that the values in column 702 add up to 30 seconds. Thus, the ephemeral message gallery in this example has four messages that will take 30 seconds to display. Further observe that the oldest message (Message_1) is displayed first and will be removed in 120 minutes. In this example, the newest message (Mes-

5

sage_4) will remain in the ephemeral gallery for 1320 minutes at which point the ephemeral gallery will expire, unless another message is posted. The arrival of a new message alters the gallery timer, but does not alter gallery participation parameters.

FIG. 8 illustrates an interface 800 with a section 802 that designates available ephemeral message galleries (stories) and a section 804 with a listing of friends (available destinations for an ephemeral message). Observe that section 802 has indicia of ephemeral message gallery activity. FIG. 8 provides example indicia of the time that the last message was posted to the ephemeral message gallery. FIG. 8 also provides example graphical indicia of the amount of time remaining for an ephemeral message gallery. Observe that the first entry was posted 20 minutes ago and therefore has a full circle indicative of the time remaining for that ephemeral message gallery. On the other hand, the third entry was posted 12 hours ago and has approximately half a circle to indicate the time remaining for that ephemeral message gallery. This example contemplates a 24 hour period for an ephemeral message gallery. Naturally, other time periods may be utilized in accordance with embodiments of the invention.

FIG. 9 illustrates an interface 900 with information on a user's stories. Individual stories 902 have indicia of the amount of time remaining. Indicia 904 of the number of ephemeral gallery views is also provided. Indicia 906 of screenshots taken of an ephemeral message is also provided. This information is significant since the intent of the message was that it be ephemeral. If a message recipient overrides this intent by taking a screen shot, then the message sender is advised.

FIG. 10 illustrates processing operations performed by the ephemeral gallery module 522 in response to a request for an ephemeral message gallery. As shown in FIG. 8, a user receives a list of 802 of available stories. Haptic contact with indicia of a story is operative as a request to view an ephemeral message gallery.

The first operation in FIG. 10 is to display the next message in the gallery 1000. In the example of FIG. 7, the oldest message is the first message to be displayed. A message timer is then started 1002. The message timer expires at the end of the message duration parameter for the displayed ephemeral message. In the example of FIG. 7, the first message (Message_1) is displayed for 10 seconds. Block 1004 checks for the timer to expire. Upon expiration of the timer (1004—Yes), a check is made to determine if the gallery is empty 1006. If so (1006—Yes), processing is completed 1008. If not (1006—No), processing returns to block 1000. This processing loop is repeated until the gallery is empty.

FIG. 11 illustrates an account administration interface 1100 to establish an ephemeral gallery that receives ephemeral messages from multiple users. Such a feature may be used to facilitate celebrity or organizational accounts where numerous authorized users are allowed to post on behalf of a single account. In one embodiment, a username, display name, contact email and contact phone are specified by an account administrator. An authorized accounts prompt 1102 allows the account administrator to add other users to the ephemeral gallery. For example, activation of the prompt 1102 may result in prompts for a username, display name, contact email and/or contact phone. Alternately, activation of the prompt 1102 may result in an interface of the type shown in FIG. 4 through which authorized accounts may be added.

6

An embodiment of the present invention relates to a computer storage product with a computer readable storage medium having computer code thereon for performing various computer-implemented operations. The media and computer code may be those specially designed and constructed for the purposes of the present invention, or they may be of the kind well known and available to those having skill in the computer software arts. Examples of computer-readable media include, but are not limited to: magnetic media such as hard disks, floppy disks, and magnetic tape; optical media such as CD-ROMs, DVDs and holographic devices; magneto-optical media; and hardware devices that are specially configured to store and execute program code, such as application-specific integrated circuits (“ASICs”), programmable logic devices (“PLDs”) and ROM and RAM devices. Examples of computer code include machine code, such as produced by a compiler, and files containing higher-level code that are executed by a computer using an interpreter. For example, an embodiment of the invention may be implemented using JAVA®, C++, or other object-oriented programming language and development tools. Another embodiment of the invention may be implemented in hard-wired circuitry in place of, or in combination with, machine-executable software instructions.

The foregoing description, for purposes of explanation, used specific nomenclature to provide a thorough understanding of the invention. However, it will be apparent to one skilled in the art that specific details are not required in order to practice the invention. Thus, the foregoing descriptions of specific embodiments of the invention are presented for purposes of illustration and description. They are not intended to be exhaustive or to limit the invention to the precise forms disclosed; obviously, many modifications and variations are possible in view of the above teachings. The embodiments were chosen and described in order to best explain the principles of the invention and its practical applications, they thereby enable others skilled in the art to best utilize the invention and various embodiments with various modifications as are suited to the particular use contemplated. It is intended that the following claims and their equivalents define the scope of the invention.

The invention claimed is:

1. A method comprising:

- at a server system, maintaining an ephemeral gallery comprising a plurality of ephemeral messages that respectively comprise visual media message content, the ephemeral gallery being viewable online via a user interface generated on a requesting client device in communication with the server system via a distributed computer network, online viewing of the ephemeral gallery comprising, responsive to a request from the requesting device, causing automated sequential display of the visual media message content of the plurality of ephemeral messages on the requesting device, the automated sequential display comprising displaying the visual media message content of the plurality of ephemeral messages one after the other for respective display intervals;
- maintaining a gallery availability parameter that indicates a time value upon which continued availability of the ephemeral gallery is based, the ephemeral gallery upon expiry of the gallery availability parameter automatically being made unavailable for online viewing responsive to subsequent view requests from client devices, the gallery availability parameter changing in value with passage of time; and

causing display on the requesting device of the user interface for enabling the viewing of the ephemeral gallery, the user interface including gallery availability indicia indicating, based on a current value for the gallery availability parameter an elapsed time since posting of a last posted one of the plurality of ephemeral messages in the ephemeral gallery, the ephemeral gallery becoming unavailable upon expiry of a default time period after posting of the last posted ephemeral message.

2. The method of claim 1, in which the gallery availability indicia includes an indication of a remaining time before the ephemeral gallery becomes unavailable for online viewing.

3. The method of claim 2, in which the remaining time for the ephemeral gallery is provided by a difference between the default time period for message availability and the elapsed time since posting of the last posted ephemeral message.

4. The method of claim 1, in which the gallery availability indicia include graphical indicia of an amount of time remaining for the ephemeral gallery.

5. The method of claim 4, wherein the graphical indicia of the amount of time remaining for the ephemeral gallery comprises a user interface element whose on-screen area is variable corresponding to variation in the amount of time remaining for the ephemeral gallery.

6. The method of claim 5, wherein the amount of time remaining for the ephemeral gallery is indicated by the on-screen area of the user interface element providing the graphical gallery availability indicia, the on-screen area of the user interface element progressively decreasing with a decrease in the amount of time remaining for the ephemeral gallery.

7. The method of claim 4, wherein the graphical indicia of the amount of time remaining for the ephemeral gallery is provided by a graphical user interface element that is selectable by a user to trigger sequential playback of the ephemeral gallery.

8. The method of claim 7, wherein the user-selectable graphical user interface element that provides the graphical indicia of the amount of time remaining for the ephemeral gallery is selectable by haptic contact with a display screen of the user device.

9. The method of claim 1, in which the default time period for availability of the ephemeral gallery after posting of the last posted message is 24 hours.

10. The method of claim 1, wherein the user interface includes a view displaying a list of available ephemeral galleries together with respectively gallery availability indicia.

11. A system comprising:

one or more computer processors; and

one or more memories storing instructions executed by the one or more computer processors to configure the one or more computer processors to perform automated operations comprising:

at a server system, maintaining an ephemeral gallery comprising a plurality of ephemeral messages that respectively comprise visual media message content, the ephemeral gallery being viewable online via a user interface generated on a requesting client device in communication with the server system via a distributed computer network, online viewing of the ephemeral gallery comprising, responsive to a request from the requesting device, causing automated sequential display of the visual media message content of the plurality of ephemeral messages

on the requesting device, the automated sequential display comprising displaying the visual media message content of the plurality of ephemeral messages one after the other for respective display intervals; maintaining a gallery availability parameter that indicates a time value upon which continued availability of the ephemeral gallery is based, the ephemeral gallery upon expiry of the gallery availability parameter automatically being made unavailable for online viewing responsive to subsequent view requests from client devices, the gallery availability parameter changing in value with passage of time; and causing display on the requesting device of the user interface for enabling the viewing of the ephemeral gallery, the user interface including gallery availability indicia indicating, based on a current value for the gallery availability parameter, an elapsed time since posting of a last posted one of the plurality of ephemeral messages in the ephemeral gallery, the ephemeral gallery becoming unavailable upon expiry of a default time period after posting of the last posted ephemeral message.

12. The system of claim 11, in which the gallery availability indicia includes an indication of a remaining time before the ephemeral gallery becomes unavailable for online viewing.

13. The system of claim 12, in which the remaining time for the ephemeral gallery is provided by a difference between the default time period for message availability and the elapsed time since posting of the last posted ephemeral message.

14. The system of claim 11, in which the gallery availability indicia include graphical indicia of an amount of time remaining for the ephemeral gallery.

15. The system of claim 14, wherein the graphical indicia of the amount of time remaining for the ephemeral gallery comprises a user interface element whose on-screen area is variable corresponding to variation in the amount of time remaining for the ephemeral gallery.

16. The system of claim 15, wherein the amount of time remaining for the ephemeral gallery is indicated by the on-screen area of the user interface element providing the graphical gallery availability indicia, the on-screen area of the user interface element progressively decreasing with a decrease in the amount of time remaining for the ephemeral gallery.

17. The system of claim 14, wherein the graphical indicia of the amount of time remaining for the ephemeral gallery is provided by a graphical user interface element that is selectable by a user to trigger sequential playback of the ephemeral gallery.

18. The system of claim 11, wherein the user interface includes a view displaying a list of available ephemeral galleries together with respectively gallery availability indicia.

19. A non-transitory computer readable storage medium having stored thereon instructions for causing a machine, when executing the instructions, to perform operations comprising:

at a server system, maintaining an ephemeral gallery comprising a plurality of ephemeral messages that respectively comprise visual media message content, the ephemeral gallery being viewable online via a user interface generated on a requesting client device in communication with the server system via a distributed computer network, online viewing of the ephemeral gallery comprising, responsive to a request from the

requesting device, causing automated sequential display of the visual media message content of the plurality of ephemeral messages on the requesting device, the automated sequential display comprising displaying the visual media message content of the plurality of ephemeral messages one after the other for respective display intervals; 5

maintaining a gallery availability parameter that indicates a time value upon which continued availability of the ephemeral gallery is based, the ephemeral gallery upon expiry of the gallery availability parameter automatically being made unavailable for online viewing responsive to subsequent view requests from client devices, the gallery availability parameter changing in value with passage of time; and 15

causing display on the requesting device of the user interface for enabling the viewing of the ephemeral gallery, the user interface including gallery availability indicia indicating, based on a current value for the gallery availability parameter an elapsed time since posting of a last posted one of the plurality of ephemeral messages in the ephemeral gallery, the ephemeral gallery becoming unavailable upon expiry of a default time period after posting of the last posted ephemeral message. 25

* * * * *

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,944,710 B1
APPLICATION NO. : 15/224359
DATED : March 9, 2021
INVENTOR(S) : Allen et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

On page 5, in Column 2, under "Other Publications", Line 6, delete "Mar. 24, 2017"," and insert --Mar. 14, 2017",-- therefor

On page 9, in Column 1, under "Other Publications", Line 9, delete "Resonse" and insert --Response-- therefor

On page 9, in Column 1, under "Other Publications", Line 11, delete "Resonse" and insert --Response-- therefor

On page 11, in Column 1, under "Other Publications", Line 41, delete "Apr. 10, 2020" and insert --Apr. 16, 2020-- therefor

In the Claims

In Column 7, Line 5, in Claim 1, delete "parameter" and insert --parameter,-- therefor

In Column 9, Line 20, in Claim 19, delete "parameter" and insert --parameter,-- therefor

Signed and Sealed this
Twentieth Day of July, 2021



Drew Hirshfeld
*Performing the Functions and Duties of the
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office*